

Catalogue No. 84



FOR NEARLY FIFTY YEARS WE HAVE GIVEN REAL SATISFACTION BY GOOD MERCHANDISE, LOW PRICES, PROMPT SERVICE AND FAIR DEALING. SAVE MONEY BY ORDERING FROM THIS BOOK. WE WILL REFUND YOUR MONEY OR EXCHANGE ANY UNSATISFACTORY PURCHASE

ESTABLISHED 1872

MONTGOMERY WARD and Co.

NEW YORK
KANSAS CITY

CHICAGO

FORT WORTH
PORTLAND

SHEET METAL ROOFING AND SIDING

All of our Metal Roofing is clean, smooth, and well manufactured stock-free from rough spots, splits and defects of any kind.

We furnish it in two thicknesses, the Standard No. 28 gauge, and a heavier grade, No. 26 gauge, in both Painted and Galvanized. We recommend the No. 26 gauge if you want a good, durable roof, that will give you many years of satisfactory service. We do not handle the light weight, No. 29 gauge roofing (which is sometimes sold for

**OUR SHEET STEEL
ROOFINGS ARE ALL FULL
WEIGHT. USE OUR
HEAVY NO. 26 GAUGE
ROOFING, IF YOU WANT
THE BEST.**

regular No. 28 gauge), for we consider it too light weight and thin a material to give satisfactory service.

A Square signifies 100 square feet of material, no allowance being made for side and end laps.

Use our Lead Washers under the nail head, when applying metal roofing. They prevent rust forming under the nail head, insure a tight, durable job, and are not at all expensive.

NOTICE: Ordinarily, prices on all metal roofs are effective during the life of this Catalogue, but in the event of extraordinary fluctuations, we reserve the right to revise our prices.

Will always bill to you at very lowest market rates.

CORRUGATED STEEL ROOFING

**\$1.80
A SQUARE**

Made of open hearth Sheet Steel in two different size corrugations, $\frac{1}{2}$ in. or $\frac{1}{4}$ in. (measuring from center to center). The $\frac{1}{2}$ in. corrugated sheets are 26 in. wide and the $\frac{1}{4}$ in. corrugated sheets are 25 in. wide (covering width, 24 in.). The painted roofing is red and covered with a good coat of mineral paint (on both sides), but should receive an additional coat after being laid. When ordering by the square, be sure to allow enough extra for the side and end laps, and give length of sheets wanted.

Painted Roofing, $\frac{1}{2}$ in. Corrugations	Per 5-ft. Sheet	Per 6-ft. Sheet	Per 7-ft. Sheet	Per 8-ft. Sheet	Per 9-ft. Sheet	Per 10-ft Sheet	Per 12-ft Sheet	Wgt. Per Sq.	Price Per Square
180B407—No. 28 gauge	20c	24c	29c	33c	36c	40c	50c	68 lbs.	\$1.80
180B408—No. 26 gauge	24c	28c	34c	38c	42c	47c	58c	83 lbs.	2.10

Shipped from our store or from mill in Central Ohio when it will save you freight.

Painted Roofing, $\frac{1}{4}$ in. Corrugations	Per 5-ft. Sheet	Per 6-ft. Sheet	Per 7-ft. Sheet	Per 8-ft. Sheet	Per 9-ft. Sheet	Per 10-ft Sheet	Per 12-ft Sheet	Wgt. Per Sq.	Price Per Square
180B410—No. 28 gauge	22c	26c	31c	36c	40c	44c	54c	72 lbs.	\$1.95
180B411—No. 26 gauge	25c	30c	35c	40c	44c	49c	60c	86 lbs.	2.20

Shipped from our store or from mill in Central Ohio when it will save you freight.

Galvanized Roofing, $\frac{1}{2}$ in. Corrugations	Per 5-ft. Sheet	Per 6-ft. Sheet	Per 7-ft. Sheet	Per 8-ft. Sheet	Per 9-ft. Sheet	Per 10-ft Sheet	Per 12-ft Sheet	Wgt. Per Sq.	Price Per Square
180B420—No. 28 gauge	38c	45c	55c	62c	69c	76c	93c	85 lbs.	\$3.45
180B421—No. 26 gauge	40c	48c	57c	64c	72c	79c	96c	98 lbs.	3.65

Shipped from our store or from mill in Central Ohio when it will save you freight.

Galvanized Roofing, $\frac{1}{4}$ in. Corrugations	Per 5-ft. Sheet	Per 6-ft. Sheet	Per 7-ft. Sheet	Per 8-ft. Sheet	Per 9-ft. Sheet	Per 10-ft Sheet	Per 12-ft Sheet	Wgt. Per Sq.	Price Per Square
180B424—No. 28 gauge	39c	46c	56c	63c	71c	78c	94c	87 lbs.	\$3.55
180B425—No. 26 gauge	41c	49c	59c	66c	74c	82c	98c	101 lbs.	3.75

Shipped from our store or from mill in Central Ohio when it will save you freight.

$\frac{1}{4}$ in. Corrugation

STEEL CEILING AND SIDING BEADED EFFECT

STEEL SIDING PRESSED BRICK EFFECT



Made of annealed sheet steel, No. 28 gauge. With small beads running lengthwise. Width of sheets, from center to center of the outside beads, 24 inches. The color of painted siding is red.

180B474 Painted Per Sheet	Length of Sheet	180B476 Galvanized Per Sheet
21c	5 ft.	38c
26c	6 ft.	45c
30c	7 ft.	50c
34c	8 ft.	60c
38c	9 ft.	68c
42c	10 ft.	75c

Per square \$2.10 Per square \$3.75

BARBED ROOFING NAILS

For applying Sheet Metal Roofing and Siding. (For Lead Washers, see 80B528.)

80B520—Length, $\frac{3}{4}$ in. For Siding. Per lb. .3c

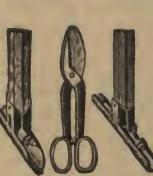
80B521—Length, 1 in. For Roll and Cap Roofing. Per lb. .3c

80B524—Length, $\frac{1}{2}$ in. For Corrugated and V-Crimped Roofing. Per lb. .3c

Per lb. .3c Per lb. .12c

80B523—To go under the nail head. Makes a tight job, and avoids the danger of leaks around the nail hole. Recommended for corrugated roofing. About 35 washers in one pound and it requires about 11% lbs. per set.

LEAD ROOF WASHERS



ROOFING TOOLS

For Roll and Cap Roofing.

80B468—The following tools are necessary for applying Roll and Cap Roofing: 1 pair Squeezing Tongs for squeezing seams, cast iron jaws, wood handles; 1 pair Edging Tongs for turning up the standing seam, cast iron jaws, wood handles; 1 pair forged steel Tinner's Snips. Shipping weight, 11% lbs. Per set . \$1.50 Per lb. .20c

DRY RED ROOFING PAINT

80B530—Dry mineral paint for metal roofing. It requires 1 lb. of the dry powder for a square of roofing. (To be mixed with linseed oil.) Furnished in any quantity.

We most all of us deny ourselves some things; there is always something beyond our reach.

To increase the buying power of a dollar isn't the easiest thing in these days; but every time you can so spend your money that \$3.00 will do the work of four, you are just as surely \$1.00 ahead as though you had earned it in any other way.

TIN—COPPER—ZINC—AND FLAT SHEET METAL

PREPARED TIN ROOFING



180B730—Made of the best I. C. (0.0125 inch thick) tin plate, locked and soldered. Put up in rolls containing 120 lineal feet. The strips are perfectly straight and ready to lay on the roof. One of the best and most convenient forms of roofing tin on the market. Painted on under side. Width of strip, 20 in. Put up in cans containing 120 lineal feet or 200 square feet. We cannot sell less than a full can containing 200 square feet. Average shipping weight, per can, 107 lbs. Per roll or cask . \$6.60

PAINTED VALLEY TIN

Made of a good grade of tin plate in a continuous strip, locked and soldered. Full rolls are 50 ft. long, but we can furnish any quantity. (Painted on one side.)

Number	Width	Weight Roll	Per Roll of 50 Ft.	Lineal Ft.
180B739	7 in.	16 lbs.	\$1.80	3c
180B740	14 in.	32 lbs.	1.85	4c
180B741	20 in.	40 lbs.	2.05	6c
180B742	28 in.	60 lbs.	3.75	8c

GALVANIZED VALLEY

Made of galvanized sheet steel, width, 14 in. Strips are joined together and put up in rolls.

180B744—Gauge, No. 28. Length of roll, 25 ft. Average weight, 18 lbs. Per roll . \$1.25

180B745—Gauge, No. 28. Length of roll, 50 ft. Average weight, 42 lbs. Per roll . \$2.50

180B746—Gauge, No. 26. Length of roll, 50 ft. Average weight, 41 lbs. Per roll . \$3.20

HEAVY GALVANIZED BUILDING CORNERS



80B764—Outside. 80B765—Inside.

Height	4 in.	6 in.
Per 100	\$1.50	\$1.62
Per 1000	13.30	14.40

(We cannot sell less than a full sheet.)

LEAD ZINC



180B550—Regular stock zinc. About 26 gauge. Sheets, 36x72 in. Wt. 14 lbs. Half sheet . \$1.40

Full sheet . 2.75

(We cannot sell less than a full sheet.)

TIN SHINGLES OR FLASHING



Made of a good grade of roofing tin. Cut to exact sizes. Useful for repairing old roofs, and in making a tight joint around chimneys, etc.

80B750—Size, 5x7 in. Weight, per hundred, 12 lbs. Per 100 . 75c

80B751—Size, 7x10 in. Weight, per hundred, 24 lbs. Per 100 . 1.45

(We cannot sell less than a full sheet.)

SHEET COPPER



80B562—Soft sheet copper, not rolled, polished, 14 oz.

Tinned on one side. Sheets, 14x48 in. Wt. 4 5/16 lbs. Per sheet . \$1.35

80B564—Cold Rolled Copper. For evaporator pipes, etc., 16 oz. Tinned on one side. Sheets, 30x60 in. Wt. 12 1/2 lbs. Per sheet . \$3.95

(Prices on copper and zinc subject to market changes.)

(We cannot sell less than a full sheet.)

SHEET ZINC



80B550—Regular stock zinc. About 26 gauge. Sheets, 36x72 in. Wt. 14 lbs. Half sheet . \$1.40

Full sheet . 2.75

(We cannot sell less than a full sheet.)

(We cannot sell less than a full sheet.)

BLACK SHEET STEEL



180B540—Size, 28x96 in. Best quality. Standard full size bundles. Prices subject to market changes. Weight, per sheet, 21, 16%, 16, 15 lbs.

Gauge Sheets in Per Per

24 7 78c \$5.25

26 9 64c 5.60

27 10 62c 6.00

28 10 60c 5.90

Gauge Sheets in Per Per

24 9 40c \$3.40

26 12 31c 3.50

27 12 30c 3.45

28 14 28c 3.60

(We cannot sell less than a full sheet.)

(We cannot sell less than a full sheet.)

TERNE ROOFING PLATES



180B545—Size, 24x101 in. Best quality. Standard full size bundles. Prices subject to market changes. Weight, per sheet, 17, 12 1/2, 12, 11 1/2 lbs.

Gauge Sheets in Per Per

24 7 78c \$5.25

26 9 64c 5.60

27 10 62c 6.00

28 14 28c 3.60

Gauge Sheets in Per Per

24 9 40c \$3.40

26 12 31c 3.50

27 12 30c 3.45

EAVE TROUGH AND FITTINGS

EAVE TROUGH HANGER No. 80860

EAVE TROUGH CORNERS SLIP JOINTS

INSIDE RIGHT HAND CORNER MITER **OUTSIDE LEFT HAND CORNER MITER**

80B650—Inside Bead Standard gauge galvanized steel. State if bead is to be inside or outside and whether right or left hand. (Give size.) Size, inches 3 1/2 4 5 6 Weight, oz. 9 12 13 18 Each 11c 12c 13c 15c

EXTRA HEAVY EAVE TROUGH CORNERS

80B652—Inside Bead Extra heavy No. 26 gauge. (Give size.) Size, inches 3 1/2 4 5 6 Weight, oz. 12 14 15 20 Each 13c 15c 18c 20c

GALVANIZED ROOF GUTTER

Made from U. S. Standard No. 28 gauge galvanized steel, with slip joints. Easily put on as no soldering is required. Made in 10-ft. lengths. Illustration shows the slip end pieces in position, but prices are for the gutter only.

180B610—Right Hand Width of girt, 14 in. Has roll 3 in. high. Flat surface, 9 inches wide. Weight, 8 lbs. Per length 57c

180B612—Right Hand Width of girt, 20 in. Has roll, 4 in. high. Flat surface, 13 in. wide. Weight, 12 lbs. Per length 82c

GALVANIZED SLIP ENDS

Galvanized Slip Ends. (State whether right or left hand.)

80B620—14-in. girt. Wt., 10 oz. Each 16c

80B621—20-in. girt. Wt., 15 oz. Each 18c

GALVANIZED SPOUT ENDS

Galvanized Spout Ends. (State whether right or left hand.)

80B622—14-in. girt. Wt., 8 oz. Each 16c

80B623—20-in. girt. Wt., 10 oz. Each 18c

CONDUCTOR HOOKS

80B670 — For fastening conductor pipe to side of house. Malleable iron, tinned. (Give size.)

Size	Average Weight, per doz.	Per Doz.
9 in.	1 1/4 lbs.	14c
3 1/2 in.	1 1/4 lbs.	22c
4 1/2 in.	2 lbs.	32c
5 in.	3 1/2 lbs.	42c

HINGED HOOKS

80B672 — Malleable iron, tin-coated. For corrugated conductor pipe. For wood buildings. Average weight, 2 lbs. 1 1/2 oz. Size, 3 in., 2 lbs.; 4 in., 3 1/2 lbs.; 5 in., 4 1/4 lbs. (Give size.) Size, in. 2 3 4 5 Per doz. 45c 65c 80c \$1.15

TINNERS' SNIPS

80B2362 — Strictly High Grade Pocket Snips. Forged steel, 2 in. cutting edges. A handy size. Length, 7 in. Average weight, 8 oz. Each 48c

SOLDERING SALTS

80B867 — One of the cleanest and most effective soldering fluxes made. Desired quantity is to be dissolved in water, and applied with brush to parts which are to be soldered. Causes solder to flow readily, and insures tight joints or seams. Put up in 1 lb. bottles, with directions. Wt., about 1 1/2 lbs. 75c value. Each 40c

MAGNOLIA BABBITT METAL

80B850 — Considered by many the best Anti-Friction Metal in use. It will not cut or heat journals, and is adapted to high and low speed machinery. Weight, about 6 1/2 lbs. per bar. Per bar \$1.63 Per Half Bar82

MELTING LADLES

80B860 — Iron Ladles, for melting babbitt metals, lead, etc. Give size. Diam. 3 in. 4 in. 5 in. Avg. Wt. 13 oz. 18 oz. 2 lbs. Each 14c 20c 25c

Showing the Slip Joint

Rt. Hd. Eave Trough No. 180B600

Strainer and Outlet No. 80B675; 80B702

Ltr. Hd. Eave Trough No. 280B601

Ltr. Hd. Outside Mitre No. 80B651

Be Sure to Always Mention Size Wanted

GALVANIZED SLIP JOINT EAVE TROUGH

180B600—Right Hand

Made of best grade of galvanized sheet steel, standard gauge, in 10-foot lengths without a seam. One end of each length is made with a slip joint, which is quickly put together and which requires no soldering. When ordering always state whether right or left hand trough is wanted, or send sketch showing position of outlets, etc. (Give size.) Size, in. (inside width at top) 3 1/2 4 5 6 Average weight, per length, lbs. 26c 28c 33c 39c Per 10 ft. length 26c 28c 33c 39c

EXTRA HEAVY EAVE TROUGH

180B604—Right Hand

Extra Heavy U. S. Standard No. 26 gauge galvanized steel. Much more durable than the ordinary eave trough. In 10-ft. lengths with slip joints. Needs no soldering. (Give size.) Size, in. (inside width at top) 3 1/2 4 5 6 Weight, per length, lbs. 29c 34c 38c 47c Per 10 ft. length 29c 34c 38c 47c

180B601—Left Hand

Made of best grade of galvanized sheet steel, standard gauge, in 10-foot lengths without a seam. One end of each length is made with a slip joint, which is quickly put together and which requires no soldering. When ordering always state whether right or left hand trough is wanted, or send sketch showing position of outlets, etc. (Give size.) Size, in. (inside width at top) 3 1/2 4 5 6 Average weight, per length, lbs. 26c 28c 33c 39c Per 10 ft. length 26c 28c 33c 39c

ROUND CORRUGATED PIPE, GALVANIZED

180B615—Round Corrugated Conductor Pipe, made of best grade of galvanized steel, standard gauge. In 10-foot lengths without a cross seam. Corrugated to allow for expansion and contraction, and will not burst, even if full of ice. We suggest that you use 2-inch conductor pipe with 3 1/2 and 4-inch eave troughs. Use 3-inch pipe for 5-inch trough, and 4 or 5-inch for 6-inch trough. (Give size.) Size, inches 2 3 4 5 Wt., per length, lbs. 27c 33c 44c 54c Per 10 ft. length 27c 33c 44c 54c

EXTRA HEAVY CONDUCTOR PIPE

180B616—Extra Heavy U. S. No. 26 gauge galvanized steel, corrugated Conductor Pipe. Much more durable than the ordinary conductor pipe. In 10 foot lengths. (Give size.) Size, in. 2 3 4 5 Wt., per length, lbs. 63c 73c 10 1/4 11 1/2 Per 10 ft. length 34c 39c 48c 60c

Pipe Hook No. 80B670

GALVANIZED RIDGE ROLL

For any flat surface roofing. Or for corrugated iron by using wood strips. Standard gauge, galvanized steel. Lengths, 10 ft. Wood strips not included.

Diam.	Roll. 1 1/2 in.	2 in.	3 in.	4 in.	5 in.	6 in.
Width.	2 1/2 in.	3 1/2 in.	4 1/2 in.	5 in.	5 1/2 in.	6 in.
Wt., lbs.	28c	33c	49c			

180B630 180B631 180B632

ORNAMENTAL METAL HIP SHINGLES

Size, 4x9 in. One to each course.

Style	Painted	Stamped
180B630	Painted	Stamped
180B631	Painted	Stamped
180B632	Painted	Stamped

Pr. 100. 10 lbs. \$1.25

180B637 — To fit 1 1/4-inch corrugated length. Wt., 7 lbs. Per 10 ft. length 65c

GALVANIZED FINIAL

80B640 — Stamped Steel. Height, 9 in. Fits 1 1/4 and 1 1/2 in. ridge roll. Weight, about 12 oz. Each 28c

RAIN WATER FILTERS

80B686 — Intended to connect to the conductor pipe. Will prevent leaves, insects, and all other filth from getting into the cistern. The water is strained through a linen sack which can easily be removed to clean. Made of heavy galvanized iron. Give size.

Size	Weight	Each
2 in.	1 1/2 lbs.	\$0.85
3 in.	2 1/2 lbs.	.90
4 in.	2 1/2 lbs.	1.00

80B660 — For attaching eave-trough to the roof. Made of a heavier galvanized wire than those ordinarily found on the market.

Size, in. 3 1/2 4 5 6	Weight, oz. 17 18 24 26	Dozen \$0.11 \$0.12 \$0.14 \$0.16	Gross 1.15 1.25 1.50 1.75	100, 18 lbs. Per 100
-----------------------	-------------------------	-----------------------------------	---------------------------	----------------------

WIRE EAVE TROUGH HANGERS

80B688 — Intended to connect to the conductor pipe. Will prevent leaves, insects, and all other filth from getting into the cistern. The water is strained through a linen sack which can easily be removed to clean. Made of heavy galvanized iron. Give size.

Size	Weight	Each
------	--------	------

80B689 — To fit our eave-trough. No holder needed. (Give size.)

Size	Weight	Each
------	--------	------

CONDUCTOR PIPE STRAINER

80B684 — A self-cleaning strainer, made of galvanized iron. The water passes through a corrugated wire strainer, and the refuse is discharged through the opening in front. Give size.

Size, in. 2 3 4 5	Weight, oz. 15 16 20 24	Dozen \$0.11 \$0.12 \$0.14 \$0.16	Gross 1.15 1.25 1.50 1.75	100, 18 lbs. Per 100
-------------------	-------------------------	-----------------------------------	---------------------------	----------------------

GALVANIZED ROLL ELBOW

80B641 80B642 80B643 80B645

80B641, 80B642, 80B643 — Corrugated Elbows. Made of galvanized steel, in three different angles. (Always state style and size.) All styles the same price.

Size, inches 2 3 4 5	Average weight, oz. 6c 7c 12c 26c	Each
----------------------	-----------------------------------	------

80B645 — Corrugated Shoes. For bottom end of conductor pipe. Made of galvanized steel. Give size.

Size, inches 2 3 4 5	Average weight, oz. 9c 10c 16c 32c	Each
----------------------	------------------------------------	------

RAIN WATER CUT-OFF

80B680 — Made of galvanized sheet steel, fitted with safety spring, so you can turn the flow of water from one pipe to another. Give size.

Size	Average Weight	Each
------	----------------	------

80B700 — To close up the end of trough. Fits right or left hand. Slip joint.

Size, in. 3 1/2 4 5 6	Weight, oz. 1 1/2 2 1/2 3 1/2 4	Each
-----------------------	---------------------------------	------

GALVANIZED DROP OUTLETS

80B702 — To fit our eave-trough. No holder needed. (Give size.)

Size, in. 3 1/2 4 5 6	Weight, oz. 6 7 8 11	Outlet, in. 2 2 2 2	Each 9c 10c 11c 12c
-----------------------	----------------------	---------------------	---------------------

GALVANIZED END CAPS

80B700 — To close up the end of trough. Fits right or left hand. Slip joint.

Size, in. 3 1/2 4 5 6	Weight, oz. 5c 5c 6c 7c	Each
-----------------------	-------------------------	------

GALVANIZED FUNNEL

80B705 — Made of galvanized sheet steel, and used to run two conductor pipes into one. Sizes given are the diameters of the lower outlet. Give size.

Size	Wt., about	Each
------	------------	------

80B705 — Made of galvanized sheet steel, and used to run two conductor pipes into one. Sizes given are the diameters of the lower outlet. Give size.

Size	Wt., about	Each
------	------------	------

GALVANIZED BAR METALS

80B875 — For keeping leaves and similar obstructions from stopping up the conductor pipe. Made of galvanized wire. Give size.

Size, in. 2 3 4 5 6	Weight, oz. 15 28 50 52 54	Dozen \$0.11 \$0.12 \$0.14 \$0.16	Gross 1.15 1.25 1.50 1.75	100, 18 lbs. Per 100
---------------------	----------------------------	-----------------------------------	---------------------------	----------------------

80B876 — Genuine. Contains pure tin, copper and antimony. For all classes of work. Weight, per bar, about 4 1/4 lbs. (Price subject to change.) Per pound 58c

80B877 — The best 10 oz. price metal. For pulleys, line shafts, agricultural machinery, etc. Weight, per bar, about 5 1/2 lbs. (Price subject to market changes.) Per pound 80c

LEADER SOLDERING SET

80B870 — Leader Soldering Set, in a box containing soldering copper, scraper, and bar of solder and box of resin. Often pays for itself on one home repair job. Weight, 1 lb. Each 40c

We have illustrated on this page all the most necessary parts used in connection with the putting up of Eave Trough and Conductor Pipe.

The patent slip joints make it easy for any man to put up troughs. No tinner needed. Makes a neat, tight job and requires no soldering at the joints. We handle only first quality material and our prices, you will find, are very low.

HANDY SOLDERING SETS

GEM NO. 1 SOLDERING SET

GEM SOLDERING CASKET NO. 2

LEADER SOLDERING SET

BABBIT METALS

80B852 — Genuine. Contains pure tin, copper and antimony. For all classes of work. Weight, per bar, about 4 1/4 lbs. (Price subject to change.) Per pound 58c

80B874 — The Gem Soldering Casket. Hollow handle will fit over a gas jet for self-heating. The casket contains large soldering iron, bar of solder, powdered resin and directions in wooden box with sliding cover. Wt., 14 oz. Each 60c

BAR METALS

All prices subject to market changes.

TINNERS' SOLDER

80B840 — Contains an equal proportion of pure tin and lead. Strictly half and half. Bars weigh about 1 1/2 lbs. each. Per Bar 52c

80B842 — Contains 40 parts tin and 60 parts lead. Bars weigh about 1 1/2 lbs. Per Bar 45c

PLUMBERS' SOLDER

80B844 — Wire Solder, half and half. Diameter, about 1/8 in. Per pound 35c

80B845 — Genuine, new, pure tin. Bars weigh 1/2 lbs. each. Per Bar 80c

WOOD HANDLES

80B865 — Soldering Copper handles, with wire ferrules. Weight, 2 oz. Each 2c

CUT-OFF

80B846 — Cut-off No. 80B680

Rain Water Filter No. 80B686

LEAD SHOE

80B847 — Lead Shoe No. 80B545

WE SELL SCREWS, HOOKS, CASTERS, ETC., AT BARGAIN PRICES. SEE INDEX

ANIMAL VANE UPRIGHT



PEERLESS COPPER CABLE LIGHTNING ROD

PLAIN UPRIGHT OR TOP Without Glass Ball



183B7221 — Complete 5-ft. upright, with tee clamp for cable. Has handsome gilt Animal Figure (horse, cow, or rooster; state which). Give color ball wanted. Ball rests on top of three-legged brace. Ship. wt., about 5 lbs. Each \$1.56

DESCRIPTION OF OUR PEERLESS LIGHTNING RODS

Every part is strictly first-class, and of the most modern approved construction. Our prices, however, are remarkably low.

The Uprights are five feet high, and strongly constructed. A Plain upright consists of a three-legged, galvanized steel brace, for attaching to roof. This brace holds a strong, heavy copper tube, with a tee at its lower end, for attaching the cable, and a seamless copper point at the top, properly shaped, with silvered tip. A half-pool, ornamental glass ball is placed near the point. The Ornamental uprights are the same, with the addition of either an animal figure or an arrow vane.

The Extra Heavy Copper Cable is 7/16 inch in diameter, and contains 32 wires, made of the purest copper obtainable. It will safely carry the most powerful discharge.

The Copper Clips and Copper Nails we furnish in sufficient quantity with the cable. They should be fastened about every three feet (directly to the building, not insulated from it), to hold the cable securely in place.

GALVANIZED STEEL VENTILATING CUPOLA

SUITABLE FOR LARGE BARNs



180B776 — Extra large, ornamental cupola. Much more attractive, effective and durable than a wood cupola. Considered the best looking cupola on the market. Has efficient double damper arrangement so constructed as to continually draw out foul air and replace it with fresh air without creating a draft. Keeps temperature at a point where animals will not catch cold when taken out of barn. Made of heavy galvanized sheet steel. Strengthened with $\frac{3}{4}$ -inch steel brace. Edges reinforced with 5/16 inch rods. Cupola screened with $\frac{1}{2}$ -inch galvanized bird-proof netting. Flanges extend over opening to keep out rain or snow. Base moulding cut in four corners. Each corner strongly braced. Will not break down. Easy to attach. Holes punched on four sides for connecting lightning rod to a standard $\frac{1}{4}$ in. Copper tube through center leading to point. Fitted with silvered tip and gold bronzed animal vane. Shipped taken down and nested. Securely crated.

Extreme Height 13 ft.
Size, base 5 $\frac{1}{2}$ x 5 $\frac{1}{2}$ in.
Diam. vent flue 30 in.
Ship. wt. 220 lbs.
Each \$27.80

ROOF VENTILATORS

80B770 — Made from the best grade of heavy galvanized iron. Excellent for ventilating schools, churches, public buildings, barns, etc. Rain-proof. (Give size.)

Size, in.	4	6	8	10	12
Weight, lbs.	1	2 $\frac{1}{4}$	4 $\frac{1}{2}$	6 $\frac{1}{2}$	9 $\frac{1}{2}$
Each	\$0.70	\$1.30	\$1.75	\$1.90	\$2.25

DOUBLE JET BRAZING TORCH



wt., about 3 $\frac{3}{4}$ lbs.
Each

80B807 — Gasoline Torch with double Jet burners, will burn in any position, and generates an intense heat of about 3,000 degrees (Fahrenheit). The burners are easily adjusted to produce either a large or small, pointed flame. A fine torch for all light brazing, tempering, etc., and is capable of doing work heretofore deemed impossible with a blow torch. All parts of this torch are made of heavy brass and bronze, the pump is contained in the handle of the torch, and full directions for operating are attached. Capacity of tank, 1 quart, height over all, 9 in. Ship. wt. \$4.95

GASOLINE FURNACE



180B820 — Unexcelled by any other at a similar price. Produces a very hot flame. Constructed in a first class, durable manner. Has shield to hold a melting pot. Melting pot not included. With heavy galvanized iron gasoline tank. Substantial rubber pressure bulb. All small castings are made of malleable iron and brass. The coil or burner is made of extra heavy copper pipe. Every pot is tested before leaving factory. Consumption, 1 pint of gasoline per hour. Height over all, 17 $\frac{3}{4}$ in. Diameter, 8 $\frac{1}{4}$ in. Shipping weight, about 10 lbs. Each \$2.95

CHARCOAL

86B296

Lump Hardwood Charcoal.

Per 7-lb. bag

12c

CHARCOAL

86B296

Lump Hardwood Charcoal.

Per 7-lb. bag

12c

ARROW-VANE UPRIGHT OR TOP



PLAIN UPRIGHT OR TOP With Glass Ball



183B7220 — Complete 5-foot Upright with tee clamp for cable. Has ornamental Glass Ball. Colors are opal, blue, ruby, silver, or gold. Give color wanted. Ball rests on top of three-legged brace. Ship. wt., about 5 lbs. Each 95c

183B7222 — Complete 5-foot Upright, with tee clamp for cable. Has handsome Arrow Vane. Has ornamental Glass Ball. Colors are opal, blue, ruby, silver or gold. Give color wanted. Ball rests on top of three-legged brace. Shipping wt., about 5 $\frac{1}{2}$ lbs. Each \$1.40

DIRECTIONS FOR FIGURING A SUITABLE OUTFIT

To Figure the Number of Uprights, or Tops, required: Uprights should be placed on the highest points of building, beside all chimneys (unless they are below the ridge), and reaching above, and on top of all cupolas, gables, etc. Uprights must not be over 20 feet apart, and there should be at least three on every building.

To Measure the Length of Cable Required: Run a stout cord (tacking it with a staple every few feet, which will serve as a guide when cable is to be attached) up one corner of the building to the roof, then up to the ridge and along all ridges and up to all points where tops are to be placed (branching out if necessary). Then branch to everything of metal on or near the roof, gutters, cornices, etc., and then down on opposite end of building. Pull out string straight measure, adding enough to make all bends rounded (not sharp), and adding 10 feet extra for each ground connection (where cable goes 10 feet deep into the ground). If building is larger than ordinary, figure on 3, or even 4 ground connections. FULL INSTRUCTIONS WITH EACH OUTFIT.

EXTRA HEAVY GENUINE COPPER CABLE

7 $\frac{3}{4}$ PER FOOT. 32 WIRES. 88-89% PURE



GENUINE COPPER

Full size of Cable showing Fastener

183B7200 — Extra Heavy Cable. Diameter, $\frac{1}{8}$ in. This cable has ample capacity for the heaviest stroke of lightning, gives effective protection at lowest cost. Will last longer than the average building. With copper fasteners, and copper nails to fasten cable directly to your building, about three feet apart. Shipping wt., per ft., about $\frac{1}{4}$ lb. Per foot 7 $\frac{3}{4}$ c

STRAIGHT CONNECTOR FOR CABLE JOINING



83B7212

Solid brass. The two ends of cable to be joined are clamped by the screws. Average wt., 1 oz. Each 4c

BRANCH CONNECTOR FOR CABLE BRANCHES



83B7210 — Solid brass prongs where desired and fastened by hammering shut. Branch cable is clamped by a screw. Average wt., 2 oz. Each 8c

VENTILATING CUPOLAS

GALVANIZED STEEL VENTILATING CUPOLA



SUITABLE FOR HOG OR POULTRY HOUSES, ETC.

180B777 — Small, neat, well designed cupola. Gives a small building a finished appearance. So constructed as to continually draw out foul air and replace it with fresh air without creating a draft. Not made with the double damper used in our larger cupolas, but satisfactory for minor ventilation. Keeps temperature at a point where animals will not catch cold when taken out of barn.

Made of heavy galvanized sheet steel. Well braced. Cupola screened with $\frac{1}{2}$ -in. galvanized bird-proof netting. Flanges extend over opening to keep out rain or snow. Base moulding cut in four corners. Each corner strongly braced. Will not break down. Easy to attach. Holes punched on four sides for connecting lightning rod to a standard $\frac{1}{4}$ in. Copper tube through center leading to point. Fitted with silvered tip and gold bronzed animal vane. Shipped taken down and nested. Securely crated.

Extreme height 6 ft.
Size, base 24x24 in.
Diam. vent flue 16 in.
Ship. wt. 50 lbs.
Each \$8.25

GALVANIZED STEEL VENTILATING CUPOLA SUITABLE FOR SMALL BARNs, CAT-TLE SHEDS, ETC.



180B778 — Large, attractive cupola. So constructed as to continually draw out foul air and replace it with fresh air without creating a draft. Efficient double damper arrangement. Keeps temperature at a point where animals will not catch cold when taken out of barn. Animals will thrive better with the added fresh air.

Made of heavy, galvanized sheet steel. Braced with $\frac{3}{4}$ in. steel brace. Edges reinforced with 5/16 in. rods. Cupola screened with $\frac{1}{2}$ in. galvanized, bird-proof netting. Flanges extend over opening to keep out rain or snow. Base moulding cut in four corners. Each corner strongly braced. Will not break down. Easy to attach. Holes punched on four sides for connecting lightning rod to a standard $\frac{1}{4}$ in. Copper tube through center leading to point. Fitted with silvered tip and gold bronzed animal vane. Shipped taken down and nested. Securely crated.

Extreme height 9 ft.
Size, base 36x36 in.
Diam. vent flue 24 in.
Ship. wt. 90 lbs.
Each \$19.75

REVOLVING CHIMNEY TOP

80B772 — Protects the chimney from rain and snow. Produces a strong, regular draft under almost all conditions, and prevents down draft. The iron mountings are strong and substantial, and top is pivoted so as to revolve easily. Hood and vane are of heavy galvanized iron. (Give size.)

Diam. Base.	Average Wt.	Each
6 in.	3 $\frac{1}{4}$ lbs.	75c
7 in.	4 lbs.	90c
8 in.	5 lbs.	95c



GASOLINE BLOW TORCH

One of the finest and most popular torches on the market. Made of polished brass with special bronze metal burner, and improved air pump. Produces a solid blue flame, generating about 1,500 degrees (Fahrenheit). It is easily regulated and indispensable for paint burning, soldering, thawing out pipes. Used by plumbers, tinsmiths, electricians, etc. Has an adjustable solder iron holder, which can be easily removed if desired. Every torch is tested and is perfect.

80B802 — Capacity, 1 pint. Height, 7 in. Ship. wt., about 3 lbs. Each \$1.95

80B803 — Capacity, 1 quart. Height, 9 in. Ship. wt., about 4 lbs. Each \$2.25



GASOLINE TORCH

GASOLINE AUTO TORCH

80B805

With flat shaped body, for use in narrow places, especially for automobile work. Has a swing support which prevents it from tipping when placed on the bench or floor.

Fitted with solder iron holder; pump is contained in the handle and has a powerful burner. Capacity, 1 pint; height over all, 9 in. Ship. wt., about 4 lbs.

Each \$3.15

80B800



A most useful combination with two interchangeable nozzles. One throws a fine stream of gasoline for cleaning machinery, destroying roaches, bed bugs, etc. The other produces an intensely hot blue flame for soldering, brazing, etc. Brass body, pump and nozzles. Steel solder iron holder. Well made and finely finished. Capacity, 1 quart. Height, 9 in. Shipping weight, about 5 $\frac{1}{2}$ lbs. Each \$2.45

GASOLINE TORCH AND SPRAYER

80B801

With a shaking grate, hinged hearth door, reversible flue and double dampers. Thoroughly well made, and nicely finished in black japan. Height, 15 in. Diameter, 7 in. Shipping wt., about 17 lbs. Soldering coppers not included. Each \$1.90

GASOLINE CHARCOAL STOVE

80B825

Extensively used as an economical means of keeping soldering coppers at a working heat. Burns regular lump charcoal. With a shaking grate, hinged hearth door, reversible flue and double dampers. Thoroughly well made, and nicely finished in black japan. Height, 15 in. Diameter, 7 in. Shipping wt., about 17 lbs. Soldering coppers not included. Each \$1.90

CHARCOAL

86B296

Lump Hardwood Charcoal. Per 7-lb. bag 12c

GASOLINE FURNACE

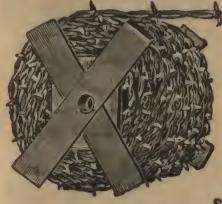
80B822

Combination plumbers', tinsmiths' and roofers' gasoline furnace. With steel gasoline tank, painted red. Burner is mounted on a swing joint, enabling the operator to use the flame in any position. Produces a hot flame. Will heat a pot of lead and a pair of soldering coppers at the same time. The hood can be taken off and tank with burner used separately. Burner is not affected by wind or weather. Well made and durable. Capacity, 3 quarts. Height over all, 12 in. Diameter, 8 $\frac{1}{4}$ in. Shipping wt., about 12 lbs. Each \$4.35

FENCE WIRE AND STAPLES



WE CAN
ALWAYS SAVE YOU MONEY



BARBED FENCE WIRE

A perfect wire. Thoroughly annealed. We recommend the two point single twist barbs shown above. Much neater than four point barbs, easier to handle and just as effectual. Two strands (regular) No. 12 gauge wire. Weight per rod, about 1 pound. Cattle wire has barbs about 5 in. apart. Hog wire has barbs about 3 in. apart.

Standard Painted Two Point Barbed Wire		At Mill
280B1450—Cattle Wire.	Reel of 100 lbs.	\$1.90
280B1451—Cattle Wire.	Spool of 80 rods.	1.55
280B1452—Hog Wire.	Reel of 100 lbs.	1.90
280B1453—Hog Wire.	Spool of 80 rods.	1.65

Standard Galvanized Two Point Barbed Wire		At Mill
280B1456—Cattle Wire.	Reel of 100 lbs.	2.40
280B1457—Cattle Wire.	Spool of 80 rods.	2.00
280B1458—Hog Wire.	Reel of 100 lbs.	2.40
280B1459—Hog Wire.	Spool of 80 rods.	2.10

Standard Galvanized Four Point Barbed Wire		At Mill
280B1460—Cattle Wire.	Spool of 80 rods.	2.10
280B1461—Hog Wire.	Spool of 80 rods.	2.25

Shipped from factory in Northern Indiana.

ECLIPSE 80-ROD BARBED WIRE



Our Eclipse is a medium weight fence wire. Preferred by many to the regular standard barbed wire. Easy to handle. Tough and elastic. Cable wires are No. 14 gauge. Put up on spools containing 80 rods. Weight, per spool, 56 to 58 lbs.

280B1470—Painted Hog Wire.		Spool of 80 rods.	\$1.40
280B1471—Galvanized Hog Wire.	Spool of 80 rods.	1.70	
280B1472—Painted Cattle Wire.	Spool of 80 rods.	1.30	
280B1473—Galvanized Cattle Wire.	Spool of 80 rods.	1.60	

Shipped from factory in Northern Indiana.

TWISTED OABLE FENCE WIRE



Made of two strands of No. 12 gauge smooth steel wire (no barbs). Preferred to single strand fence wire because of its greater strength. Often used at top and bottom of fences made with plain, smooth fence wire. No barbs to catch and tear clothes or injure animals. Put up in reels of about 100 lbs.

280B1480—Painted Cable Fencing.		Reel of 100 lbs.	\$1.90
280B1481—Galvanized Cable Fencing.	Reel of 100 lbs.	2.40	

Shipped from factory in Northern Indiana.



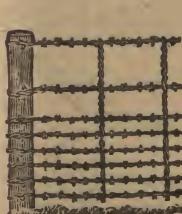
SMOOTH FENCE WIRE

Smooth Steel Fence Wire. Put up in 100-lb. bundles. We do not break bundles, and prices are free on board cars at factory. All wire prices are subject to market changes, so we cannot guarantee them, but will always bill to you at the very lowest market rates. (Give size.)

Size or gauge	8	9	10	11	12	13	14	15	16	17	18
Feet in 1 pound.	14 1/4	14 1/4	14 1/4	14 1/4	14 1/4	14 1/4	14 1/4	14 1/4	14 1/4	14 1/4	14 1/4
280B1490—Plain, per 100 lbs.	\$1.70	\$1.70	\$1.75	\$1.80	\$1.85	\$1.95					
280B1492—Galvanized, per 100 lbs.	2.20	2.20	2.25	2.30	2.35	2.45					
Size or gauge	14	15	16	17	18	19	20	21	22	23	24
Feet in 1 pound.	50	73	95	129	172						
280B1490—Plain, per 100 lbs.	\$2.05	\$2.15	\$2.25	\$2.40	\$2.55						
280B1492—Galvanized, per 100 lbs.	2.55	2.95	3.05	3.60	3.75						

Shipped from factory in Northern Indiana.

THE CINCH WIRE FENCE STAYS



280B1495—Gives you a stiff, rigid fence at small expense. Easily and rapidly put on. Start the open end of the stay over the top strand of fence. Twisted down by hand over each line wire. At the bottom bend the stay up a trifle. This locks it. Made of No. 10 hard galvanized wire. We cannot furnish less than a bundle of 100 stays.

Length	|Ship. wt. per 100 |	Per 100 stays
24 in.	24 lbs.	\$1.44
30 in.	37 lbs.	1.57
36 in.	52 lbs.	1.70
42 in.	68 lbs.	1.85
48 in.	83 lbs.	2.00
54 in.	98 lbs.	2.20
60 in.	54 lbs.	2.64

Shipped from factory in Northern Indiana.

FENCE STAPLES

Prices on staples are subject to market changes. We cannot guarantee them, but will always bill to you at the lowest market rates.

REGULAR FENCE STAPLES

Made of steel wire, with sharp points. Intended for barbed wire and the heavier woven wire fences.

180B1504—POLISHED		\$0.03
Length, 1 1/4 in. Per lb.	2.15	
Per kg, 100 lbs.	.03	
Length, 1 1/4 in. Per lb.	2.15	
Per kg, 100 lbs.	.03	
Length, 1 1/4 in. Per lb.	2.15	
Per kg, 100 lbs.	.03	

180B1505—GALVANIZED		\$0.03 1/2
Length, 1 1/4 in. Per lb.	2.00	
Per kg, 100 lbs.	.03 1/2	
Length, 1 1/4 in. Per lb.	2.00	
Per kg, 100 lbs.	.03 1/2	
Length, 1 1/4 in. Per lb.	2.00	
Per kg, 100 lbs.	.03 1/2	

Length, 1 1/4 in. Per lb. 2.70 | |

Per kg, 100 lbs. .03 1/2 | |

LIGHT NETTING STAPLES



Galvanized

Made of stiff steel wire with sharp points. Will not readily bend or split the wood. Intended for attaching light poultry netting. Approximate number to a pound: 3 in., 505; 1 in., 360 staples.

280B1506—Length, 3/4 in.

Per lb. .40c

280B1507—Length, 1 in.

Per lb. .40c

280B1508—Length, 1 1/2 in.

Per lb. .40c

280B1509—Length, 2 in.

Per lb. .40c

280B1510—Length, 3 in.

Per lb. .40c

280B1511—Length, 4 in.

Per lb. .40c

280B1512—Length, 5 in.

Per lb. .40c

280B1513—Length, 6 in.

Per lb. .40c

280B1514—Length, 7 in.

Per lb. .40c

280B1515—Length, 8 in.

Per lb. .40c

280B1516—Length, 9 in.

Per lb. .40c

280B1517—Length, 10 in.

Per lb. .40c

280B1518—Length, 11 in.

Per lb. .40c

280B1519—Length, 12 in.

Per lb. .40c

280B1520—Length, 13 in.

Per lb. .40c

280B1521—Length, 14 in.

Per lb. .40c

280B1522—Length, 15 in.

Per lb. .40c

280B1523—Length, 16 in.

Per lb. .40c

280B1524—Length, 17 in.

Per lb. .40c

280B1525—Length, 18 in.

Per lb. .40c

280B1526—Length, 19 in.

Per lb. .40c

280B1527—Length, 20 in.

Per lb. .40c

280B1528—Length, 21 in.

Per lb. .40c

280B1529—Length, 22 in.

Per lb. .40c

280B1530—Length, 23 in.

Per lb. .40c

280B1531—Length, 24 in.

Per lb. .40c

280B1532—Length, 25 in.

Per lb. .40c

280B1533—Length, 26 in.

Per lb. .40c

280B1534—Length, 27 in.

Per lb. .40c

280B1535—Length, 28 in.

Per lb. .40c

280B1536—Length, 29 in.

Per lb. .40c

280B1537—Length, 30 in.

Per lb. .40c

280B1538—Length, 31 in.

Per lb. .40c

280B1539—Length, 32 in.

Per lb. .40c

280B1540—Length, 33 in.

Per lb. .40c

280B1541—Length, 34 in.

Per lb. .40c

280B1542—Length, 35 in.

Per lb. .40c

280B1543—Length, 36 in.

Per lb. .40c

280B1544—Length, 37 in

GUARANTEED GARDEN HOSE



QUALITY GARDEN HOSE

Our Rubber Hose is made for us by one of the oldest and best manufacturers in the country, who has an established reputation for making only high grade, reliable goods. We do not handle the cheap, competition grades of hose, for the reason that they are usually dear at the prices asked. We furnish good, honest and dependable hose at prices that you will find to be uniformly low. We include brass couplings with each order for full 50-ft. length or more. Hose is measured by its inside diameter.

HOSE NOZZLE



28c

83B6230—Brass Nozzle. Extra quality. Adjustable from a solid stream to a fine spray. One size only for $\frac{1}{4}$ in. hose. Weight, 4 oz. Each 28c

REVOLVING LAWN SPRINKLER



95c

Three brass arm revolving lawn sprinkler. Cast iron base. Distributes water in large circle. Retail value, \$1.50. Height, 11 in. For $\frac{1}{4}$ in. hose. Weight, 2 lbs. 10 oz. Each 95c

ECLIPSE HOSE OUTFIT LAKESIDE HOSE OUTFIT



Complete \$4.65

Hose, Nozzle and Reel

183B6160—Outfit complete, consisting of 50 ft. of $\frac{1}{4}$ in. Eclipse brand garden hose with hardwood reel; adjustable stream, brass nozzle, coupled ready for use. Average shipping weight, 30 lbs. \$4.65

MULTIPLE FIVE-PLY HOSE

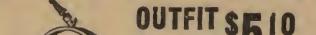


Complete \$6.50

Hose, Nozzle and Reel

183B6162—Outfit complete, consisting of 50 ft. of $\frac{1}{4}$ in. Lakeside brand garden hose with hardwood reel; adjustable stream, brass nozzle, coupled ready for use. Ship. wt., 30 lbs. \$6.50

MULTIPLE FIVE-PLY HOSE



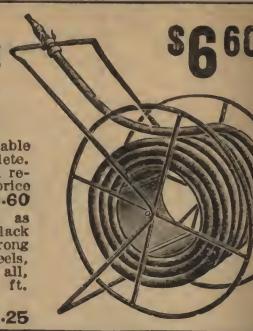
OUTFIT \$5.10

Hose, Nozzle and Reel

183B6168—Outfit complete, consisting of 50 ft. of $\frac{1}{4}$ in. Multiple Five-Ply Rubber Garden Hose, with hardwood hose reel; adjustable stream, brass nozzle, coupled ready for use. Ship. wt., 30 lbs. \$5.10

LAKESIDE RED RUBBER HOSE

183B6164—Outfit complete, consisting of 50 ft. of $\frac{1}{4}$ in. Lakeside Red Cover Rubber Garden Hose. With steel reel, adjustable stream, brass nozzle, complete. Shipping wt., 35 lbs. Usual retail value, \$10.00. Our price for complete outfit \$6.60



\$6.60

ECLIPSE RUBBER HOSE



ECLIPSE
3 PLY

8c Per Foot

MULTIPLE FIVE-PLY HOSE



MULTIPLE
5 PLY

9c Per Foot

83B6172—A Good, Three-Ply Rubber Hose. For all ordinary lawn use. Has rubber inner tube, three-ply woven fabric, vulcanized together with a rubber cover. Excellent value at our price. Wt. of 50 ft. length, 15 lbs. Size, $\frac{1}{4}$ in. Couplings attached to 50 ft. lengths. Per foot 8c Per 50 ft. length \$4.00

83B6174—An Excellent, Five-Ply Rubber Hose. Will give good service. Has rubber inner tube, five-ply woven fabric, vulcanized together with a rubber cover. Weight of 50 ft. length, 17 lbs. Size, $\frac{1}{4}$ in. Coupling attached to 50 ft. lengths. Per ft. \$0.09 Per 50 ft. length 4.50

NON-KINKABLE CONTINUOUS RUBBER HOSE



14c Foot

NON-KINKABLE

DOUBLE BRAIDED INSERTION

83B6185—Our Strongest and Best Garden Hose. Durable and anti-kinking. Far superior to common hose. Made with a circular braided, double-woven cotton jacket insertion, which gives it remarkable strength, and makes kinking impossible. Heavy, seamless, molded rubber covering. We furnish any continuous length up to 500 ft. Size, $\frac{1}{4}$ in. Weight, per 100 ft., 50 lbs. (Couplings not included.) Per foot \$0.14

83B6186—Per 50-ft. length, with brass couplings attached 7.00

ADJUSTABLE NOZZLE



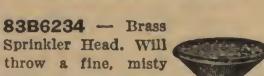
32c

Adjustable Hose Nozzle. Extra quality, polished brass. Will produce a variety of sprays, from a fine mist to a solid stream. Wt., each, 7 or 12 oz.

83B6231—For $\frac{1}{4}$ in. hose 32c

83B6232—For 1 in. hose 65c

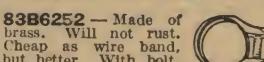
ROSE SPRINKLER HEAD



35c

83B6234—Brass Sprinkler Head. Will throw a fine, misty spray that will not injure delicate plants. Indispensable for garden and hothouse work. Diameter, 3 $\frac{1}{2}$ in. For $\frac{1}{4}$ in. hose 43c

BRASS HOSE COUPLINGS



83B6250

For water or steam hose. Well made. Wts., each, $\frac{1}{4}$ lb. Hose, in. $\frac{1}{4}$, $\frac{3}{4}$, 1, 1 $\frac{1}{4}$, 1 $\frac{1}{2}$, 2. Each 8c 10c 14c 34c 46c 84c

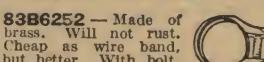
IRON HOSE SPLICERS



83B6251

Hose splicer, for mending hose. Wts., 2 to 4 oz. Size, in. $\frac{1}{2}$, $\frac{3}{4}$, 1, 1 $\frac{1}{2}$, 2. Each 16c 22c 30c

BRASS HOSE CLAMPS



83B6252

Made of brass. Will not rust. Cheap as wire band, but better. With bolt. Weight, each, 1 to 8 oz. (Give size.) Size means for inside diameter hose.

Size Each

Size	Each	Dozen
$\frac{1}{4}$ in.	\$0.03	\$0.29
$\frac{3}{8}$ in.	.03	.27
$\frac{1}{2}$ in.	.07	.72
$\frac{5}{8}$ in.	.10	.96
$\frac{3}{4}$ in.	.13	1.45
$\frac{7}{8}$ in.	.23	2.55
1 in.	.32	3.60

EXTRA STANDARD HOSE



EXTRA STANDARD

10 $\frac{1}{2}$ c Per Foot

83B6178—High Grade, Three-Ply Rubber Hose. Thick rubber inner tube, three-ply woven fabric, vulcanized together. Rubber outer cover. Weight of 50-ft., 15 lbs. Size, $\frac{1}{4}$ in. Couplings attached to 50-ft. lengths. Per ft. \$0.10

Per 50-ft. length 13c

MULTIPLE SEVEN-PLY HOSE



MULTIPLE

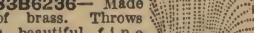
7 PLY

12c Per Foot

83B6175—A Fine Quality Seven-Ply Rubber Hose. Strong and flexible. Has first quality rubber inner tube, seven-ply woven fabric, vulcanized together and a rubber cover. Weight of 50 ft. length, 20 lbs. Size, $\frac{1}{4}$ in. Couplings attached to 50-ft. lengths. Per foot 12c

Per 50-ft. length 6.00

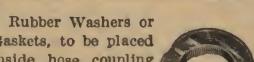
RAINBOW LAWN SPRINKLER



83B6236

Made of brass. Throws a beautiful fine spray over a wide area. Can be moved about without shutting off the water and makes an excellent hand sprinkler. Diameter, 3 $\frac{1}{2}$ in. For $\frac{1}{4}$ in. hose. Weight, 4 oz. Each 35c

RUBBER HOSE WASHERS



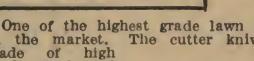
83B6252

Made of brass. Will not rust. Cheap as wire band, but better. With bolt. Weight, each, 1 to 8 oz. (Give size.) Size means for inside diameter hose.

Size Each

Size	Each	Dozen
$\frac{1}{4}$ in.	\$0.03	\$0.29
$\frac{3}{8}$ in.	.03	.27
$\frac{1}{2}$ in.	.07	.72
$\frac{5}{8}$ in.	.10	.96
$\frac{3}{4}$ in.	.13	1.45
$\frac{7}{8}$ in.	.23	2.55
1 in.	.32	3.60

HANDY HOSE MENDERS



83B6253

In bores containing pair pliers, 6 brass tubes and 18 wire bands. For $\frac{1}{4}$ in. garden hose. Wt., 14 oz.

Per set 35c

EXTRA PARTS

83B6259—Hose Bands.

Per doz. 8c

83B6260—Hose Tubes (brass)

Dozen 30c

Each 90c

LAKESIDE RUBBER HOSE

183B6164—Outfit complete, consisting of 50 ft. of $\frac{1}{4}$ in. Lakeside Red Cover Rubber Garden Hose. With steel reel, adjustable stream, brass nozzle, complete. Shipping wt., 35 lbs. Usual retail value, \$10.00. Our price for complete outfit \$6.60



\$6.60

LAKESIDE RUBBER HOSE



RED
6 PLY

183B6162—Reel only, as above, made of steel, black japanned. Light, but strong and durable. 21 in. in wheels, 12 in. in drum; height over all, 38 in. Capacity, 100 ft. Shipping weight, 15 lbs. Each \$1.25



\$1.25

83B6180—A Fine, Durable Three-ply Rubber Hose. Extra quality throughout. Has excellent grade rubber inner tube, three-ply heavy woven fabric, vulcanized together. It is a handsome red rubber hose. Wt., of 50 ft., 16 lbs. Size, $\frac{1}{4}$ in. Couplings attached to 50-ft. lengths. Per ft. \$0.12

\$0.12

COTTON GARDEN HOSE



Seamless Woven, Cotton Garden Hose. Rubber lining or inner tube. Light weight, easy to handle and will stand high pressure. In lengths of 50 ft.

With brass couplings. Can supply in full lengths only. Size, $\frac{1}{4}$ in. (Inside diameter.)

83B6200—Standard grade. Weight, 8 $\frac{1}{2}$ lbs. Price, per 50 ft. length \$4.00

83B6201—Extra quality. A fine, serviceable hose. Weight, 10 lbs. Price, per 50 ft. length 5.50

REVERSIBLE LAWN SPRINKLER



83B6237

Instantly adjusted for any pressure and direction by simply reversing the brass cap, can be made to throw either a high or low spray. Cast iron base. For $\frac{1}{4}$ in. hose. Weight, 1 $\frac{1}{2}$ lbs. Each 48c

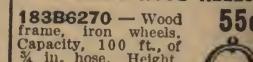


83B6238

Throws a good spray. Nothing to clog up or get out of order. Cast iron base with brass tip. No back pressure on the hose. For $\frac{1}{4}$ in. hose. Weight, 2 $\frac{1}{2}$ lbs. Each 47c

47c

LAWN SPRINKLER

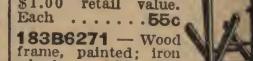


83B6239

throws a good spray. Nothing to clog up or get out of order. Cast iron base with brass tip. No back pressure on the hose. For $\frac{1}{4}$ in. hose. Weight, 2 $\frac{1}{2}$ lbs. Each 47c

47c

GARDEN HOSE REELS



183B6270

Wood frame, iron wheels. Capacity, 100 ft., of $\frac{1}{4}$ in. hose. Height, 39 in. Shipping wt., about 9 lbs. Usual \$1.00 retail value. Each 55c

55c

183B6271—Wood frame, painted; iron wheels. Capacity, 200 ft., of $\frac{1}{4}$ in. hose. Hgt., 40 in. Ship. wt., about 13 lbs. Usual \$1.25 retail value. Each 90c

90c

WATER BALLAST LAWN ROLLER



283B1640

Weidet steel drum. Roller bearings. With or without 60 lb. handle counter balance. Shipping weight, without counter balance, 60, 75, 125, 140 lbs. Wt., filled, 200 to 710 lbs.

Diam. Lghth. With Drin. Counter in. in. in. in. balance

14 26 \$7.20

18 24 9.10

24 24 11.65

24 32 12.90

Without Counter balance

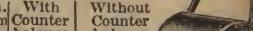
6.25

8.10

10.65

11.90

TURF EDGER

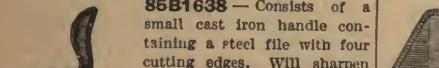


183B2035

Polished steel blade. Solid shank. With 4 foot handle. Ship. wt., 2 $\frac{1}{2}$ lbs. Each 43c

43c

GRASS HOOK OR SICKLE OFFSET GRASS HOOK



83B2122

FINE VALUES IN LAWN AND GARDEN TOOLS

GARDEN BARROW HARDWOOD FRAME STEEL BRACED LEGS



183B1690 — A popular low-priced barrow, full size and well made. Width of box at wheel, 16½ in.; width at handles, 20½ in.; depth, 11½ in.; length inside, 28 in. Steel wheel, diameter, 20 in.; width, 1½ in. Bottom is put on cross-wise, well nailed to the handles, making a rigid frame. Sides are removable. Nicely knocked down for shipment. Average ship. wt., 46 lbs. Each... \$2.45

RAILROAD BARROW HARDWOOD FRAME WOOD BRACED LEGS



183B1694 — One of the best low priced wheelbarrows made. Made of selected seasoned hardwood. Frame is securely bolted and strongly braced. Tight, well made tray. Full size. Depth at handles, 10 in.; width, 34 in.; length on top, 26 in. Steel wheel, diam., 16 in.; width, 1¼ in. Packed with 16x1½ in. steel wheel. Average ship. wt., 37 lbs. Each... \$1.45

STEEL TRAY BARROW HARDWOOD FRAME WOOD BRACED LEGS



183B1695 — A strong and substantial barrow, with a seamless pressed steel tray mounted on hardwood frame. Legs and braces extend above the handles and tray is securely bolted. Seamless tray is watertight; suitable for plaster, cement, etc. Size of tray, 32x32 x11 in. deep at wheel. Edge of tray is turned over ½ in. Steel rod to stiffen it. Fitted with 16x1½ in. steel wheel. Average ship. wt., 43 lbs. Each... \$2.25

STRONG GARDEN BARROW SOLID STEEL LEGS \$275 A BARGAIN AT



183B1688 — One of the finest and best made barrows. Only first-class stock is used in the construction. Legs of this barrow are made of strong angle steel. Sides are removable. Dash strongly bolted. Handles are of proper distance apart to evenly balance the load. Inside measurements of box, length, 28 in.; width at handles, 20½ in.; depth, 11½ in.; width at wheel, 16½ in. Bottom is put on cross-wise, well nailed to the handles, making a rigid frame. Sides are removable. Nicely painted in red. Average ship. wt., 46 lbs. Each... \$2.75

ALL BOLTED BARROW HARDWOOD FRAME \$1.50 BENT STAVE TRAY



183B1697 — One of the best and cheapest all-bolted wheelbarrows on the market. Tray made up of narrow boards, which will not split like wide boards. Two staves bolted clear through each board and staves can always be kept drawn tightly together. One stave may be broken out completely without destroying shape of tray, while with some barrows the entire tray goes to pieces as soon as one stave is broken. Length of tray, 33 in. Width, 27 in. Greatest depth, 7 in. Excellent value. Knocked down for shipment. Easily set up. Average ship. wt., 40 lbs. Each... \$1.50

TUBULAR BARROW STEEL FRAME IN THREE SIZES STEEL TRAY \$3.45



183B1698 — Made entirely of steel. Heavy, one-piece steel tray, with edges turned over a round bar. Greatest depth at the front end, throwing heaviest part of load on the wheel. Handles of heavy steel tube in one piece. Braces securely bolted and will dump forward and stand the hardest usage. Steel wheel, 16x1½ in. In three sizes. (Give size.)

Size	4	5	12
Length, Tray.	32 in.	37 in.	43 in.
Width, Top.	28 in.	29 in.	33 in.
Depth, Front.	7 in.	9 in.	12 in.
Capacity	3 cu. ft.	4 cu. ft.	6 cu. ft.
Average Ship. wt.	62 lbs.	65 lbs.	85 lbs.
Each	\$3.45	\$3.75	\$4.95

FORGED GARDEN RAKES



48c

183B1980 — Forged from one piece of steel without a weld. With bow brace and long handles. Best quality.

12 teeth. Ship. wt., 3 lbs. Each... 48c
14 teeth. Ship. wt., 3½ lbs. Each... 53c



183B2000

Extra quality. Polished 7-inch steel blade. Solid socket. Length handle, 4½ feet. Shipping weight, 2½ lbs. Each... 38c



183B2001

Standard grade. Polished 6¾-in. steel blade. Width, 6½ in. Riveted to shank. Length handle, 4½ feet. Shipping weight, 2½ lbs. Each... 32c

FORGED GARDEN RAKES



40c

183B1982 — Head and teeth forged from one piece of solid steel, without a weld and will not break at shank. Nicely finished with long handle. Give size.

12 teeth. Ship. wt., 3 lbs. Each... 40c
14 teeth. Ship. wt., 3 lbs. Each... 44c



183B2010

Malleable Iron. Teeth. Steel blade. Width, 6½ in. Riveted to shank. Length handle, 4½ feet. Shipping weight, 2½ lbs. Each... 32c



183B2012

Extra quality. Polished 10-inch steel blade, with 4-teeth. Width, 3½ in. Shipping wt., 2 lbs. Each... 20c



183B2005

Extra quality. Polished 10-inch steel blade, with two holes. Solid socket. Length handle, 6 feet. Shipping wt., 4 lbs. Each... 25c

MALLEABLE GARDEN RAKES



15c

183B1984 — Garden Rakes. Made of malleable iron. Will not easily break. An excellent low priced rake which will give good service where heavy work is not necessary. Plain finish, with wood handle.

12 teeth. Ship. wt., 2 lbs. Each... 15c
14 teeth. Ship. wt., 2½ lbs. Each... 17c

WIRE LAWN RAKE



24c

183B1988 — For grass or leaves. One of the strongest rakes made. Head, 20½ in. with 24 heavy wire teeth extending through both sides of head, and are curved to prevent digging the ground. All nicely tinned. Either side can be used. Socket is of malleable iron with hardwood handle. Shipping weight, 3 lbs. Each... 24c

WOOD LAWN RAKE



38c

183B1990 — Lawn Rake. Hardwood curved head, which throws the grass to the center of the rake and makes it easy to handle. The wooden teeth will not shrink from place or fall out. Will not dig up the lawn. Nicely finished. Length of head, 23 in., with 26 teeth. Shipping weight, 2½ lbs. Each... 38c



183B2000

Extra quality. Polished 7-inch steel blade. Solid socket. Length handle, 4½ feet. Shipping weight, 2½ lbs. Each... 38c



183B2001

Standard grade. Polished 6¾-in. steel blade. Width, 6½ in. Riveted to shank. Length handle, 4½ feet. Shipping weight, 2½ lbs. Each... 32c



183B2010

Malleable Iron. Teeth. Steel blade. Width, 6½ in. Riveted to shank. Length handle, 4½ feet. Shipping weight, 2½ lbs. Each... 32c



183B2012

Extra quality. Polished 10-inch steel blade, with 4-teeth. Width, 3½ in. Shipping wt., 2 lbs. Each... 20c



183B2005

Oval eye, 2x1½ in. steel blade. Wt., 1½ to 2½ lbs. Without handles. Each... 38c



183B2390

Cast steel. Width, 6 in. Ship. wt., 2½ pounds. (without handles). Each... 40c



183B2391

Handles for Hazel hoes. Length, 5½ in. Ship. wt., 2½ lbs. (without handles). Each... 30c



183B2392

Made of hickory. Length, 36 in. To fit grub hoes. Wt., 2 lbs. Each... 12c



183B2393

Spring tempered steel prongs, ¼ in. Width, 3½ in. Two prongs. Bronze finish. Length handle, 2½ ft. Each... 42c



183B2038

Polished steel blade. Width, 8 in. Malleable socket riveted on. Long handle. Weight, 2½ lbs. Each... 30c



183B2038

Polished steel blade. Width, 8 in. Malleable socket riveted on. Long handle. Weight, 2½ lbs. Each... 40c

RAILROAD PICKS



83B2380 — Best quality cast-steel bits, tempered points. Large oval eye. Weight, 5 to 6 lbs. Each... 30c

DRIFTING PICKS



83B2384 — Best quality steel bits, black finish.

No. | Wt. lbs. | Each

2	30c	
4	32c	
4½	34c	
5	35c	

STEEL MATTOCKS



83B2400 — Long Cutter, cast-steel. Polished sharpened edges. Size of blade, 8½x4½ in. Size of cutter, 6x3 inches. Weight, 5½ lbs., without handles. Each... 38c

COMBINATION TOOL 25c



83B2074 — Adjustable to form Trowel, Rake, Hoe, Fork, Dibble, Length, about 1½ in. Wt., 1 lb. Each... 25c

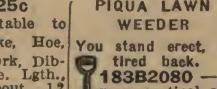


83B2077 — Four spring steel tines. Steel hoe blade.

A combined tool that will save time. A very convenient article for the small garden.

Length, 11½ in. Wt., 10 oz. Each... 25c

PIQUA LAWN WEEDER



You stand erect, no tired back.

183B2080 — A very practical and efficient tool for pulling weeds and removing the root.

Made of steel with a sharp blade. With this tool it is easy work to keep your lawn free of weeds. Hardwood handles. Length, 3 ft. 8 in. Wt., 2½ lbs.

Each... 65c

EASY GARDEN WEEDER



183B2082

For speed and easy work.

This weeder surpasses anything of the kind. Double edged to cut weeds easily. Hardwood handle. Length, 4½ ft. Wt., about 3 lbs.

Each... 48c

POTATO HOOK

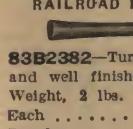


183B1970

With 4 bent oval steel tines. Width, 6 in.

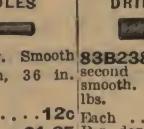
Securely attached to handle. Length, 4½ ft. Wt., about 3 lbs.

Each... 40c



183B2070

Wrought steel, 6 in. blade. Wood handle. Wt., 8 oz. Weight, 4 oz. Each... 4c



183B2072

Forged Steel Garden Trowel. Extra quality. Steel blade. Malleable handle. Brass springs. Weight, 12 oz. Each... 28c



183B2073

Blade and socket in one piece. Convenient and strong. Blade, 6x3¾ in. Hardwood handle, 8 in. Wt., ½ lb. Each... 18c



83B2075

Malleable Hook. Wood handle. Nicely tinned. Length, 10 in. Wt., 4 oz. Each... 6c



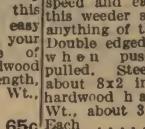
83B2076

Polished iron point. Wood handle. For transplanting. Wt., 12 oz. Each... 24c



83B2078

With a steel blade. Sharp edges. Cut both ways. Weight, 4 oz. Each... 12c



83B2140

Buckeye Pruning Shears. 22 in. hardwood handle. Weight, 2½ lbs. Each... 52c



83B2131

Swiss Pattern. Best quality crucible steel blades. Ground convex and tempered. With extra blade. Double brass spring. Malleable handle. Adjusting nut. Full polished. Length, 8½ in. Wt., about 1 lb. Each... 90c

(NOTCHED) HEDGE SHEARS EXCELLENT VALUES



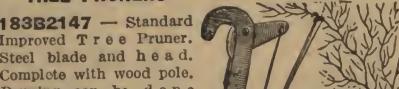
83B2142 — Extra Quality cast steel blades, with notch for cutting branches. Hardwood handles. Wt., 3½ to 4½ lbs. Give size. Length of blade, in. 8 ½ to 10 ½ to 12 ½. Each... 85c

PRUNING OR HEDGE SHEARS



83B2145 — Has a shear cut. Forged steel blades, riveted to the ferrule. Will not come loose. Total length, 26 in. Wt., 2½ lbs. Each... 72c

TREE PRUNERS



183B2147 — Standard Improved Tree Pruner. Steel blade and head. Complete with wood pole. Pruning can be done standing on the ground, without climbing or using ladder.

Length, feet	Aver. wt., lbs.	Each
6	2½	43c
8	3½	45c
10	4	50c
12	4½	55c

83B2154 — Extra knives for above pruners. Each... 9c

TELEPHONE PRUNER

ACCESSORIES FOR THE LIVE STOCK OWNER AT LOW PRICES

PERFECT DEHORNER



183B2605—Simple, strong and well made. Blades are high grade tool steel, and can readily be sharpened or replaced. A powerful dehorner. Will easily cut a horn without cracking or crushing it. Opens 3 1/4 in. Average shipping weight, 15 lbs. Retail value, \$6.00.

Each \$4.75

83B2606—Extra blades (per set of 2), average wt., 1 1/2 lbs.

Per set \$1.20

KEystone DEHORNER



183B2612—Cattle Dehorner. Has two V-shaped steel blades, which come together, giving four cutting blades. This gives sheer edge, keeping the cut clean and smooth. Has a powerful lever and will clip any size with ease. Total length, 4 1/4 in. blades, open, 3 1/4 in. Average shipping wt., complete, 21 lbs. Price, complete, with leader and rope, extra blades and screws. Each \$9.60

LEAVITT'S V-BLADE CATTLE DEHORNER



183B2600—Large size. Cuts all around the horn. Steel knives cannot interlock or cut into each other. Opens 3 1/4 in. To insure good results the animal's head should be securely fastened. Average shipping weight, 15 lbs.

Each \$4.70

83B2601—Extra blades (per set of 2). Weight, 1 1/2 lbs.

183B2602—Leavitt's Medium Size Dehorner, opens 3 1/2 in., which is large enough for ordinary cattle. Other wise the same construction as the large size shown above.

Average shipping weight, 13 1/2 lbs.

Each \$3.80

83B2603—Extra blades (per set of 2). Average weight, 1 1/2 lbs.

Each 70c

IMPROVED KEYSTONE DEHORNER



183B2615—Made extra heavy and strong with a taper rack, which gives knife its greatest power at the beginning of operation when it is most needed, as the hard surface of the horn presents the greatest resistance to the steel knife at the start. The entire instrument is nicely proportioned comparatively light, yet strong and powerful. Total length, 4 1/4 in. Blades, open, 3 1/2 in. Average shipping weight, complete, 20 lbs. Price, complete, with leader and rope, extra set of blades and screws. Each \$11.20

183B2608—Very simple in its mechanism. Consists of two castings and one steel cutting knife. Makes a quick sharp, clean cut. Large enough for any size or shape of horn.

Has hardwood handles. Blade can be replaced if damaged. Total length, 4 1/4 in. Blades, open, 3 1/2 in. Average shipping weight, 19 lbs. Price, complete, with leader and rope and one extra blade \$4.70

DEHORNING SAW



83B2622—Steel frame, iron handle. Tempered 10-in. steel blade. White nickel finish. Wt., about 1 lb. Extra value. Each 37c

83B2624—Extra 10-in. steel blades. Wt., per doz., about 6 oz. Each 7c

Dozen 70c

HOG HOLDER



83B2655—Hog Tongs or holders. Malleable iron, indispensable for holding hogs when ringing, etc. Average wt., 1 1/4 lbs. 25c value. Each 17c

DOUBLE HOG HOLDER



83B2658—One end for small, one end for large hogs. Galvanized 7 1/2 in. steel. Strong and efficient. Size, about 12x2 in. Wt., 1 1/4 lbs. Each 23c

HOG TAMERS

53c

83B2630—Malleable iron, with three steel knives, for nose cutting, or ear marking. The knives can be quickly changed by removing the thumb screw. The wood block is reversible and the spring is enclosed. Finished in white nickel. Length, about 10 in. Wt., 1 1/4 lbs. Each 53c

HOG TAMERS



83B2632—Dr. Miller's Hog Nose Cutter. Will prevent the hog from rooting, does away with the rings and ringers. Japanned iron. Two different size steel cutters with each instrument. Weight, 1 1/2 lbs. Usual price, \$1.00. Each, complete with 2 cutters 70c

EAR MARKING ATTACHMENTS



83B2633—Steel. To be used with Miller's hog tamer. Made in three styles and used for marking animals' ears. Full size of dies, 3/4 inch. Average weight, 1 oz. Each (give style) 20c

PERFECT RINGERS AND RINGS



83B2640—Perfect Hog Ring. Cast Iron. Average weight, 8 oz. Each7c

83B2641—Coppered Wire Rings.

Average weight, 8 oz. Per dozen boxes 7c

No. 1 for pigs. 78c

83B2652—No. 2 for shoats. 78c

83B2653—No. 3 for hogs. Average weight, 7 oz. Box (100 rings) any size 4c

HILL'S RINGERS AND RINGS



83B2650—Hill's Cast Iron Hog Ringers, will take all sizes of Hill's rings. Average wt., 8 oz. Each 6c

83B2651—Coppered Wire Rings.

Average weight, 7 oz. Box (100 rings) any size 4c

ALUMINUM LEG BANDS OR MARKERS



83B2690—Poultry Leg bands. Made of aluminum. Very light and will fit any size fowl. If your poultry stray from home or become mixed with your neighbors' fowls you can easily identify them. Bands numbered from one up. Weight, 3 oz. per 100. Each 125c

Per 25 bands. No. 1 to 25 13c

Per 50 bands. No. 1 to 50 25c

Per 100 bands. No. 1 to 100 40c

We do not sell less than 25, and prices are for bands numbered consecutively from 1 up. We do not furnish them in any other way.

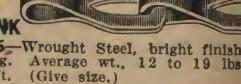
GIANT BULL RING



83B2720—Malleable iron, heavily tinned. The swivel ring prevents the rope or chain from getting tangled. Wt., 2 1/2 oz. Each 20c

83B2729—Polished Solid Copper. Hinge Joint. Size, 3 x 2 1/2 in. Wt., 2 oz. Each 3.10

HEAVY COPPER BULL RING



83B2720—Malleable iron, heavily tinned. The swivel ring prevents the rope or chain from getting tangled. Wt., 2 1/2 oz. Each 20c

83B2729—Polished Solid Copper. Hinge Joint. Size, 3 x 2 1/2 in. Wt., 2 oz. Each 3.10

STEEL COIL CHAIN FLAT LINK

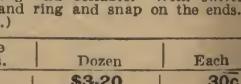


83B2795—Wrought Steel, bright finish, very strong. Average wt., 12 to 19 lbs. per 100 ft. (Give size.)

Size	Width of Link, in.	Per 100 ft.
3/0	2 1/32	\$2.95
2/0	5/8	2.50
3/0	5/8	2.20
4/0	1 1/2	3.00
5/0	1 1/2	3.75
6/0	2	4.25
7/0	2 1/2	4.75
8/0	3	5.25
9/0	3 1/8	5.75
10/0	3 1/2	6.25
11/0	3 3/8	6.75
12/0	3 5/8	7.25

Per ft. 4c
3/0 3 1/2c
2/0 3 1/2c
3/0 3 1/2c
4/0 3 1/2c
5/0 3 1/2c
6/0 3 1/2c
7/0 3 1/2c
8/0 3 1/2c
9/0 3 1/2c
10/0 3 1/2c
11/0 3 1/2c
12/0 3 1/2c

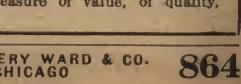
STEEL PICKET PINS



83B2788—With swivel top; rigid, strong and light. The swivel prevents the rope or chain from winding around the pin. Length, 15 inches. Average weight, each, 12 oz. Each \$0.09

Per dozen 1.00

TIE OUT CHAINS



83B2780—For tethering cattle in pasture. Uniformly made of hard bright steel wire. Strong and reliable. With swivel in center and ring and snap on the ends. (Give size.)

Length Feet | Size | Wire Gauge | Average Wt., lbs. | Dozen | Each

20 | 2/0 | 10 | 47 1/2 | \$3.20 | 30c

20 | 0 | 11 | 57 1/4 | 2.80 | 250

20 | 2/0 | 10 | 58 1/2 | 2.40 | 22c

30 | 0 | 10 | 70 1/4 | 4.80 | 420

30 | 1 | 11 | 55 | 4.00 | 350

30 | 1 | 12 | 41 1/4 | 3.45 | 30c

THE TRUE VERMONTER SHEARS



83B2810—Made by Burgen & Wilkinson, Sheffield, England, of solid steel with double bow, full polished. Average weight, 11 to 12 oz. (Give size.) 6-in. blade. Each \$1.15

6 1/2-in. blade. Each 1.20

BURGON ENGLISH SHEEP SHEARS



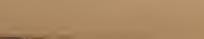
83B2818—Double bow, made of the highest quality of steel, finely finished. Made by the H. Burgon Patent Shear Co. (Give size.) Average weight, 11 to 14 oz.

6-in. blades. Each 85c

6 1/2-in. blades. Each 82c

7-in. blades. Each 95c

THE TRUE VERMONTER SHEARS



83B2812—Genuine Wilkinson True Vermonter Shears are made of the very finest steel, bent blades, full polished. Average weight, 9 to 12 oz. each. Usual retail value, \$1.50. (Give size.) 6 1/2-in. blades. Each 95c

6-in. blades. Each 98c

DETACHABLE SHEEP SHEARS



83B2821—Made of high grade cutlery steel, finely finished. Usual retail value, \$1.00 and up.

83B2822—Straight Shears, swaged full polished. 6-in. blades. Average weight, 10 oz. Each 60c

83B2824—Bent Shears, swaged full polished. 6-in. blades. Average wt., 11 oz. Each 60c

83B2825—Detachable Sheep Shears.

Made of high grade cutlery steel, finely finished. Usual retail value, \$1.00 and up.

Swaged full polished. 6-in. blades. Average weight, 10 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 11 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 12 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 13 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 14 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 15 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 16 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 17 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 18 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 19 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 20 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 21 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 22 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 23 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 24 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 25 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 26 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 27 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 28 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 29 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 30 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 31 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 32 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 33 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 34 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 35 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 36 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 37 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 38 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 39 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 40 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 41 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 42 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 43 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 44 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 45 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 46 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 47 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 48 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 49 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 50 oz. Each 60c

Swaged full polished. 6-in. blades. Average weight, 51 oz. Each 60c

GAME TRAPS AND ACCESSORIES



VICTOR TRAPS

Ours are the genuine Victor Steel Traps made by the Oneida Community Limited. While lighter in weight than the Newhouse, they are made in a first-class manner, and are very popular with the farmer and trapper of small game. Branded with a V on the pan.

VICTOR BRAND TRAPS

VICTOR TRAP, SIZE 0



85B5001—For gophers, rats, or other vermin. Has a tight grip. Spread of jaws, 3½ in. Weight, per dozen, 4½ lbs. Each \$0.10
Per dozen 1.10

VICTOR TRAP, SIZE 1½



85B5005—For mink, woodchuck, skunk, etc. Spread of jaws, 4½ in. Weight, per dozen, 11 lbs. Each \$0.17
Per dozen 1.95

VICTOR TRAP, SIZE 2



85B5007—Especially for Foxes. Spread of jaws, 4½ in. Weight, per dozen, 14 lbs. Each \$0.23
Per dozen 2.73

VICTOR TRAP, SIZE 3



85B5011—For otter and similar game. Spread, 5½ in. Weight, each, 1¾ lbs. Each \$0.31
Dozen 3.64

SMALL GAME TRAPS

ALLIGATOR TRAP



Kills instantly. Double trip action, bait trigger and foot pedal trip.
85B5048—Size 1. For Muskrat, Mink, etc. Toothed jaws. Length, 8 in. Weight, 14 oz. Each 35c

ALLIGATOR TRAP



85B5049—Size 2. For the larger fur-bearing animals. Smooth upper jaw. Two powerful springs. Length, 11 in. Weight, 24 oz. Each 50c

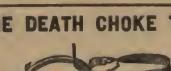
STEEL TREE TRAPS



Used with great success by many trap-pers. Made with strong springs. Can be nailed to a tree or stump above the snow, and thus is always easily found.
85B5075—Size 1. For mink, marten, etc. Weight, each, 20 oz. Each \$0.20
Per dozen 2.38

85B5076—Size 2. For skunk, coon, etc. Weight, each, 23 oz. Each \$0.23
Per dozen 2.75

SURE DEATH CHOKE TRAP



85B5080—Size 1. A light, sensitive and powerful steel trap, with pronged trip. Kills without injuring the pelt. Instructions with each trap. Length, 11½ in. Size, inside of jaws, 4½ in. Weight, each, 9 oz. Each \$0.22
Per dozen 2.50

SURE DEATH CHOKE STRAP



85B5083—Size 3. With foot pedal trigger. Light, sensitive and powerful. Kills without injuring the pelt. Size inside of jaws, 5½ in. Weight, each, 14 oz. Each \$0.25
Dozen 2.90

85B5084—Size 4. With curved trigger. Weight, each, 14 oz. Each \$0.26
Dozen 3.00

GENUINE NEWHOUSE BRAND GAME TRAPS

NEWHOUSE TRAP, SIZE 0



85B5000—For gopher, rats and other vermin. Has a tight grip. Spread of jaws, 3½ in. Weight, per dozen, 7½ lbs. Each \$0.21
Per dozen 2.42

NEWHOUSE TRAP, SIZE 81



85B5020—For muskrat, etc. Webbed jaws prevent animals gnawing legs off. Spread of jaws, 4 in. Weight, each, 12 oz. Each \$0.29
Per dozen 3.14

NEWHOUSE TRAP, SIZE 91



85B5022—The wide, double jaws rarely break bones, and grip so high up on a muskrat or skunk that he can not twist or gnaw out. Same size as the regular No. 1 Newhouse. Spread of jaws, 5½ in. Weight, each, 14 oz. Each \$0.29
Per dozen 3.42

NEWHOUSE TRAP, SIZE 9½



85B5023—Wide, double jaws. Corresponds in size with No. 1½. Spread of jaws, 6¾ in. Weight, each, 22 oz. Each \$0.43
Per dozen 5.13

NEWHOUSE TRAP, SIZE 9½



85B5024—Especially for beaver. A favorite with trappers in the far west and Canada. Spread of jaws, 6½ in. Weight, each, 3½ lbs. Each \$0.79
Per dozen 9.40

NEWHOUSE TRAP, SIZE 2



85B5005—Called the Fox Trap. Spread of jaws 4½. Similar to No. 1½, but having two springs. Is, of course, much stronger. Weight, each, 1 lb. Each \$0.50
Per dozen 5.99

NEWHOUSE TRAP, SIZE 2½



85B5025—Used especially for catching otter on their "slides." Sharp teeth pierce the animals' breast. Detachable, raised pan plate. A trap of general utility. Spread of jaws, 5½ in. Weight, each, 2½ lbs. Each \$0.79
Per dozen 9.40

NEWHOUSE TRAP, SIZE 3



85B5010—Very powerful; will hold almost any game smaller than a bear. Spread of jaws, 5½ in. Weight, each, 2½ lbs. Each \$0.67
Per dozen 7.98

NEWHOUSE TRAP, SIZE 4



85B5012—Especially for beaver. A favorite with trappers in the far west and Canada. Spread of jaws, 6½ in. Weight, each, 3½ lbs. Each \$0.79
Per dozen 9.40

POPULAR TRAPPING ACCESSORIES



ANIMAL LURE

35c



85B5061—Size 1. For squirrels, rats, gophers and small animals. Made of hard steel wire. Light, yet strong. With chain. Weight, each, 8 oz. Each 8c
Per dozen 95c

STOP THIEF WIRE TRAPS

85B5063—Size 3. For raccoon, skunk, mink, etc. Made of hard steel wire. Light, yet strong. With chain. Weight, each, 15 oz. Each \$0.14
Per dozen 1.58

STEEL WIRE TRAPS



85B5070—Size 2. For mink, skunk, etc. Size, 11x7 in. Wt., each, 12 oz. Each 7c
Per dozen 70c

85B5071—Size 3. For larger animals. Size, 11x7½ in. Wt., each, 14 oz. Each 9c
Per dozen 90c

WIRE KILL 'EM TRAPS



22c

85B5050—Size 1. Heavy steel wire. Readily concealed over holes in runways. Length, 12 in. Diam. of rings, 5½ in. Wt., each, 1 lb. Each \$0.22
Per dozen 2.50

NEWHOUSE GOPHER TRAP



10c

85B5122—Very popular. Simple and certain. Carefully tempered spring makes the trap fast and powerful. Length, 5½ in. Diam. of ring, 3 in. Wt., each, 4 oz. Each \$0.10
Per dozen 1.15

WESTERN GOPHER TRAPS



85B5120—Especially for California Pocket Gophers. Extensively used by fruit growers, etc. Usually placed in the burrow. Wood box with steel springs and loop. Size, 6¾x3x3 in. Weight, each, 13 oz. Each \$0.13
Per dozen 1.35

NEWHOUSE TRAPS

Ours are the genuine Newhouse steel traps, made only by the Oneida Community, Limited. The springs are made of the best crucible steel, and are thoroughly tested. Made of the best material, strongly proportioned, and will give the best of satisfaction. The trappers' choice. Branded with a V on the pan.

JUMP TRAPS

Made by the Oneida Community, Ltd. Lighter in weight and easier to carry than other styles. Very popular with many trappers. Lie very flat and are easily secreted. Jaws have full, wide, meeting faces, not liable to break the animal's leg.



ONEIDA JUMP TRAPS

ONEIDA JUMP TRAP, SIZE 0



85B5040—For rats or gophers. Light and easy to carry. Jaws have full, wide meeting faces, not likely to break the animal's leg. Spread of jaws, 4 in. Wt., each, 7 oz. Each \$0.13
Per dozen 1.45

ONEIDA JUMP TRAP, SIZE 1½



85B5042—For Mink. Spread of jaws, 5¼ in. Weight, each, 13 oz. Each \$0.22
Per dozen 2.57

ONEIDA JUMP TRAP, SIZE 3



85B5044—For Fox or Otter. Spread of jaws, 6½ in. Weight, each, 18 oz. Each \$0.40
Per dozen 4.75

ONEIDA JUMP TRAP



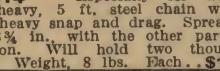
85B5045—With wide, double jaws. Takes a firm grip, high up on the animal's leg so it cannot gnaw loose. Spread of jaws, 4¾ in. Wt., ea., 10 oz. Each 18c Doz.
85B5046—Spread of jaws, 5 in. Wt., ea., 12 oz. Each \$0.25
Per dozen 2.90

NEWHOUSE TRAP, SIZE 14



85B5028—Especially for deer. Jaws have an offset to prevent breaking the deer's leg. With teeth sufficiently close together to prevent the animal from drawing its hoofs out. Spread of jaws, 6¾ in. Weight, each, 1 lb. Each 84c
Per dozen 1.01

NEWHOUSE BEAR TRAP



85B5014—Especially for wolves. Extra heavy, 5 ft. steel chain with swivel, heavy snap and drag. Spread of jaws, 8¾ in. with the other parts in proportion. Will hold two thousand pounds. Weight, 8 lbs. Each \$1.90

NEWHOUSE BEAR TRAP



85B5015—Especially for common black bear. Strong chain and swivel. Spread of toothed jaws, 11½ inches. Weight, 19 lbs. Each \$5.70
85B5016—Strongest trap made. Spread of jaws, 16 in. Wt., 42 lbs. Each \$13.30

NEWHOUSE TRAP, SIZE 15



85B5030—For Bear. Jaws have ¾ in. offset, which allows the spring to come up high, and holds securely. Spread of jaws, 11½ in. Wt., 20 lbs. With setting clamp and spring holder. Each \$5.70

LIVE ANIMAL TRAP



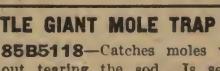
85B5072—To catch animals alive for breeding purposes or to insure getting furs free from blemishes. Used with or without bait. Made of black sheet steel. One end has trap door with adjustable tension. Size 1. Wt., 4 lbs. Size, 23x5x5 in. Each \$1.75
Size 2. Wt., 6 lbs. Size, 30x7x7 in. Each \$2.00

CLAMMING OR PEARLING HOOKS



85B5095—Usually strung up, three in a group, spaced 4 in. apart, on bars 15 ft. long. Consists of a wrought steel hook with five points that turn on a perfect swivel. Each point has a locking knob which allows no clam to escape. Far superior to and rapidly replacing old fashioned wire hooks. Length, 3½ in. Weight, doz., 1 lb. Per dozen \$0.60
Per gross 6.50

LITTLE GIANT MOLE TRAP



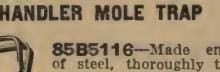
85B5118—Catches mole without tearing the sod. Is set by pulling up plunger rod. Wrought steel frame. Spring steel prongs, not injured by striking rocks. Height, set 20½ in. Width, frame, 4 in. Weight, about 3 lbs. Each 45c

OUT O'SIGHT MOLE TRAP



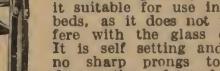
85B5114—Small and compact. All steel. Easily set and a sure catcher. No high projecting parts and can be used in hot beds without interfering with the glass cover. Directions for securing best results are included with each trap. Wt., 1¾ lbs. Each 42c

CHANDLER MOLE TRAP



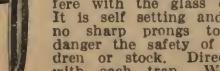
85B5116—Made entirely of steel, thoroughly tinned to prevent rusting. When set it extends only 5 in. above the ground and 7 in. under ground, making it suitable for use in hot beds, as it does not interfere with the glass cover. It is self setting and has no sharp prongs to endanger the safety of children or stock. Directions with each trap. Weight, 2½ lbs. Each 53c

MOUSE TRAP



85B5156—Each mouse sets the trap for another. Will hold ten to fifteen mice. Wood and tin nicely finished. Wt., 8 oz. Each 9c

SELF DROWNING TRAP



85B5160—Certain and sanitary. Automatically drowns the mice. Easily emptied. Each mouse resets the trap. Made of wood and tin. Wt., 1 lb. Each 45c

RAT AND MOUSE TRAPS

STRONG WIRE RAT TRAP



40c

FLAT PATTERN RAT TRAP



38c

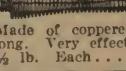
55c

FLAT RODENT TRAP



15c

FLAT RAT TRAP



5c

ROUND CHOKER MOUSE TRAP



60

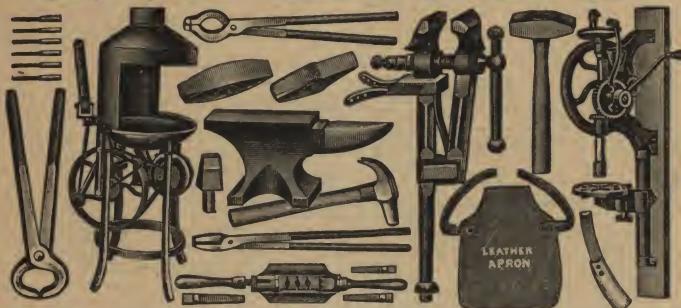
MOUSE TRAP



BLACKSMITHS' SUPPLIES — STEEL CHAINS — WIRE ROPE

HIGH GRADE BLACKSMITHING OUTFIT

Each Item is First Class. Our Price Remarkably Low, \$32.80
quality considered. This is a Big Bargain.



183B2952—A fine, complete outfit of standard, first quality tools, all taken from our regular stock, and in every way exactly as represented. The Forge, Anvil, Drill, etc., carefully selected with a view to supplying reliable, practical tools for hard every day use. Will enable you to do your own blacksmithing and repairing and will prove of much value on any farm or ranch.

Outfit consists of the following:

- I Imperial Lever Forge, with half hood, diameter of hearth, 22 in.; height, 30 in., with perfect lever ratchet action. Fan case, 9 in.
- I American Wrought Anvil, steel face. Nothing better made. Weight, about 85 lbs.
- I Champion Post Drill, with self-feed attachment, will bore to center of a 12-in. circle, takes 1/2-in. round shank drills. A strictly first-class machine.
- I Stock and Dies, cutting 5/16 to 3/4 in., right hand, 10, 12 and 16 thread, with 3 sets of dies and 3 taper taps.
- I Pair Blacksmiths' Pincers, forged steel, polished jaws.
- I Pair Blacksmiths' Tongs. Length, 20 in.
- I Pair Bolt Tongs, size 1/2 in.; length, 20 in.
- I Hardie, solid steel, to fit anvil.
- I Hot Chisel, solid steel, 1% in.
- I Cold Chisel, solid steel, 1% in.
- I Leather Apron, extra quality.
- I Farners' Knife, genuine Wostenholm IXL, stag handle.
- I Farners' Hammer, forged steel, polished. Weight, about 10 oz.

183B2952—Price of Outfit complete as illustrated and described above. \$32.80

FARMER'S HANDY REPAIR OUTFIT

A Fine Assortment of Serviceable Tools. Just \$10.95



183B2950—Consists of an assortment of good, practical tools, all taken from our regular stock, and will be found exactly as represented. With this outfit you can do most of the repair work necessary about a farm or ranch and keep your wagons and implements in good order at a trifling expense.

Outfit consists of the following items:

- I Lever Forge, with an 18-in. round hearth, a perfect lever ratchet movement, and 8-in. fan case.
- I Combination Anvil and Vise, with pipe jaws; width of jaws in vise, 3 in.; will open 5 in.
- I Horizontal Drill, length, 26 in., with chuck for holding square shank drill bits.
- I Farners' Knife, with stag handle.
- I Cold Chisel, size 1/2 in.
- I Hand Hammer, forged steel, polished. Weight, about 2 lbs.
- I Stock and Dies, cutting 5/16 to 3/4 in., for boring metal or wood.
- I Twist Drills, one each, 4%, 5/16, 1/2 in., for boring metal or wood.
- I Stock and Dies, cutting 5/16 to 3/4 in., 10, 12 and 16

183B2950—Price of Outfit complete. \$10.95

LOG CHAINS AND HOOKS

STEEL LOG CHAINS, 80c — LENGTH 14 FT.

183B2900—Cable log chain. Total length, 14 feet. Self colored steel coil chain, with swivel in center, and heavy grab and round hook. The sizes given indicate the diameter of the rods from which the links are made. Each chain carefully tested and inspected. The proof test and safe working load is the same as the Steel Cable Chains shown below. Note Our Bargain Prices. Give size.

Size, in. 1/4 5/16 3/8 1/2
Approximate weights, lbs. 10 1/2 16 1/2 23 45
Each 80c 95c \$1.20 \$1.80

STEEL CABLE CHAIN

183B2905—Short, straight links. The sizes given indicate the diameter of the rods from which the chain is made. The safe working load is about one-half of the proof test shown below, while the breaking strain is about double the proof test. Give size.

Size, in. 3/16 5/16 3/8 7/16 1/2
Proof test, lbs. 700 1,200 2,500 4,800 6,200
Approx. wt. 1/2 lb. 1/4 lb. 2 lb. 2 1/2 lb. 2 1/2 lb.
Price, per ft. 5/2c 6/2c 7/2c 9c 10c 12c

NOTICE: In the event of extraordinary market fluctuations, we reserve the right to revise our prices on chains.

IRON CHAIN HOOKS

83B2910 — Forged Iron Round Hooks for chain. Well made. Give size.		83B2911 — Forged Iron Grab Hooks for chains. Well made. Give size.	
For Chain size.	Weight about	Each	Size in. Weight
1/4	1/2 lb.	.50	1/4 1/2 lb. .50
5/16	1/2 lb.	.50	5/16 1/2 lb. .60
3/8	1/2 lb.	.60	3/8 1 lb. .60
7/16	1 lb.	.90	7/16 1 lb. .90
1/2	1 1/2 lb.	1.00	1/2 1 1/2 lb. 1.00
	12c		12c

WROUGHT REPAIR LINKS

83B2915 — Repair Links for connecting or repairing iron chain.		MALLEABLE REPAIR LINKS	
For Chain in. about	Wt. doz.	Per dozen	Give size.
3/16	5/16 lbs.	.50	1/4 1/2 lbs. .50
1/4	5/16 lbs.	.60	5/16 1/2 lbs. .60
5/16	5/16 lbs.	.60	3/8 1 lb. .60
3/8	2 1/2 lbs.	1.20	7/16 1 lb. .90
			1/2 1 1/2 lb. 1.20
			12c
Wts. about	2 to 12 oz. each.		
Chain in. about	Wt. doz.	Per dozen	
3/16	5/16 lbs.	.50	1/4 1/2 lbs. .50
1/4	5/16 lbs.	.60	5/16 1/2 lbs. .60
5/16	5/16 lbs.	.60	3/8 1 lb. .60
3/8	2 1/2 lbs.	1.20	7/16 1 lb. .90
			1/2 1 1/2 lb. 1.20
			12c

Wts. about 2 to 12 oz. each.

Give size. Each Doz.

For Chain, in. 1/4 4c 34c

For Chain, in. 5/16 4c 46c

For Chain, in. 3/8 6c 67c

For Chain, in. 7/16 10c 90c

For Chain, in. 1/2 12c 12c

For Chain, in. 1 12c 12c

For Chain, in. 1 1/2 12c 12c

For Chain, in. 2 1/2 12c 12c

For Chain, in. 3 12c 12c

For Chain, in. 4 12c 12c

For Chain, in. 5 12c 12c

For Chain, in. 6 12c 12c

For Chain, in. 7 12c 12c

For Chain, in. 8 12c 12c

For Chain, in. 9 12c 12c

For Chain, in. 10 12c 12c

For Chain, in. 11 12c 12c

For Chain, in. 12 12c 12c

For Chain, in. 13 12c 12c

For Chain, in. 14 12c 12c

For Chain, in. 15 12c 12c

For Chain, in. 16 12c 12c

For Chain, in. 17 12c 12c

For Chain, in. 18 12c 12c

For Chain, in. 19 12c 12c

For Chain, in. 20 12c 12c

For Chain, in. 21 12c 12c

For Chain, in. 22 12c 12c

For Chain, in. 23 12c 12c

For Chain, in. 24 12c 12c

For Chain, in. 25 12c 12c

For Chain, in. 26 12c 12c

For Chain, in. 27 12c 12c

For Chain, in. 28 12c 12c

For Chain, in. 29 12c 12c

For Chain, in. 30 12c 12c

For Chain, in. 31 12c 12c

For Chain, in. 32 12c 12c

For Chain, in. 33 12c 12c

For Chain, in. 34 12c 12c

For Chain, in. 35 12c 12c

For Chain, in. 36 12c 12c

For Chain, in. 37 12c 12c

For Chain, in. 38 12c 12c

For Chain, in. 39 12c 12c

For Chain, in. 40 12c 12c

For Chain, in. 41 12c 12c

For Chain, in. 42 12c 12c

For Chain, in. 43 12c 12c

For Chain, in. 44 12c 12c

For Chain, in. 45 12c 12c

For Chain, in. 46 12c 12c

For Chain, in. 47 12c 12c

For Chain, in. 48 12c 12c

For Chain, in. 49 12c 12c

For Chain, in. 50 12c 12c

For Chain, in. 51 12c 12c

For Chain, in. 52 12c 12c

For Chain, in. 53 12c 12c

For Chain, in. 54 12c 12c

For Chain, in. 55 12c 12c

For Chain, in. 56 12c 12c

For Chain, in. 57 12c 12c

For Chain, in. 58 12c 12c

For Chain, in. 59 12c 12c

For Chain, in. 60 12c 12c

For Chain, in. 61 12c 12c

For Chain, in. 62 12c 12c

For Chain, in. 63 12c 12c

For Chain, in. 64 12c 12c

For Chain, in. 65 12c 12c

For Chain, in. 66 12c 12c

For Chain, in. 67 12c 12c

For Chain, in. 68 12c 12c

For Chain, in. 69 12c 12c

For Chain, in. 70 12c 12c

For Chain, in. 71 12c 12c

For Chain, in. 72 12c 12c

For Chain, in. 73 12c 12c

For Chain, in. 74 12c 12c

For Chain, in. 75 12c 12c

For Chain, in. 76 12c 12c

For Chain, in. 77 12c 12c

For Chain, in. 78 12c 12c

For Chain, in. 79 12c 12c

For Chain, in. 80 12c 12c

For Chain, in. 81 12c 12c

For Chain, in. 82 12c 12c

For Chain, in. 83 12c 12c

For Chain, in. 84 12c 12c

For Chain, in. 85 12c 12c

For Chain, in. 86 12c 12c

For Chain, in. 87 12c 12c

For Chain, in. 88 12c 12c

For Chain, in. 89 12c 12c

For Chain, in. 90 12c 12c

For Chain, in. 91 12c 12c

For Chain, in. 92 12c 12c

For Chain, in. 93 12c 12c

For Chain, in. 94 12c 12c

For Chain, in. 95 12c 12c

For Chain, in. 96 12c 12c

For Chain, in. 97 12c 12c

For Chain, in. 98 12c 12c

For Chain, in. 99 12c 12c

For Chain, in. 100 12c 12c

For Chain, in. 101 12c 12c

For Chain, in. 102 12c 12c

For Chain, in. 103 12c 12c

For Chain, in. 104 12c 12c

For Chain, in. 105 12c 12c

For Chain, in. 106 12c 12c

For Chain, in. 107 12c 12c

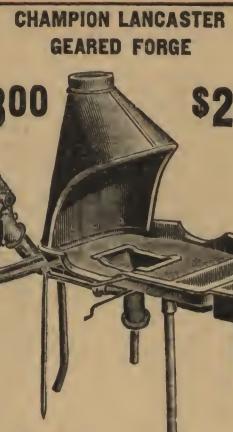
For Chain, in. 108 12c 12c

For Chain, in. 109 12c 12c

For Chain, in. 110 12c 12c

For Chain, in. 111 12c 12c

FINE VALUES IN BLACKSMITHS' PORTABLE FORGES



183B2980 — A light running and durable forge. Heavy cast iron hearth. Diameter, 22 in. Depth, 3½ in. Open sheet steel hood, as shown. The lever ratchet motion is positive and simple, and produces a strong blast with but slight exertion. The legs are of heavy wrought pipe screwed into the hearth. Stiff and substantial, and braced at bottom. Diameter of fan case, 9 in. Diameter of fly wheel, 19½ in. Height to top of hearth, 32 in. A rigid, substantial and durable forge for blacksmiths, quarrymen, farmers, etc. Nicely painted. Shipping weight, about 115 lbs. Each \$8.25

183B2984 — Adapted for horse-shoers, boilermakers, bridge builders or general smithing. Has a roomy cast hearth; size, 28x35 in. Depth, 2¾ in. Open sheet steel hood, as shown. The fan is operated by a simple ratchet lever motion, which is positive, never slips, and produces a strong blast with but little exertion. Diameter of fan case, 12 in. Diameter of fly wheel, 19½ in. The legs are of heavy wrought pipe screwed into the bottom of hearth. Height to top of hearth, 30 in. Thoroughly and substantially constructed in every detail, and a most efficient and durable forge for all kinds of general work. Nicely painted. Shipping weight, about 180 lbs. Each \$12.35

Style 41. A well made, direct drive Blacksmith Forge with cast iron hearth, strong pipe legs and sheet steel hood. Nicely painted. Built to meet the demand for a serviceable forge at a low price. Blower is smooth running and gives a strong, continuous blast. Will operate by turning in either direction. Heavy nest ball tuyeres iron, weight, 50 lbs. Hearth, 32x45 in. Depth, 3½ in. With improved coal box on hearth. Tank, inside, 24x9 in. Depth, 6 in. Height to top of hearth, 31½ in. Diameter of fan case, 12 in. A most excellent and practical forge for all general work. With coal box on end of hearth, as shown. Nicely painted.

183B2997 — With coal box and water tank. Shipping weight, about 330 lbs. Each \$20.00

183B2998 — Same forge, but without water tank. Shipping weight, about 300 lbs. Each \$18.00

A strong, portable forge. Large, heavy cast-iron hearth; size, 32x45 in. Depth, 3¾ in. With sheet steel hood as shown. Strong pipe legs. Has the Midway blower, with cut spiral gears in dust-proof casing, no belts or ratchets and produces a powerful steady blast. Crank can be turned in either direction. Height to top of hearth, 30 in. Diameter of fan case, 12 in. A most excellent and practical forge for all general work. With coal box on end of hearth, as shown. Nicely painted.

183B3012 — Without water tank. Shipping weight, about 350 lbs. Each \$21.65

183B3013 — With water tank. Size of tank, inside, 24x9 in. Depth, 6½ in. Shipping weight, about 330 lbs. Each \$23.90

Champion Steel Horseshoers' Forge. Designed and substantially constructed for horseshoers' and blacksmiths.

Has the famous Champion 400 high speed, noiseless gearing, and consequently produces a powerful draft, runs easily and smoothly, and is pleasant to the hand. Fitted with the well known whirlwind tuyere iron. The frame of the forge is of structural steel, making it stiff and substantial. The hearth is of heavy steel plate. One of the most practical forge hearths made. Sheet steel hood. Braced angle steel legs. Size of hearth, 31½x37 in. Depth, 5½ in. Height to top of hearth, 32 in. Diameter of fan case, 12 in. Nicely painted.

183B3035 — Complete with water tank. Size, 23x9 in. Depth, 6¾ in. Shipping weight, about 330 lbs. Each \$32.50

183B3036 — Without water tank. Shipping wt. about 302 lbs. Each \$30.40

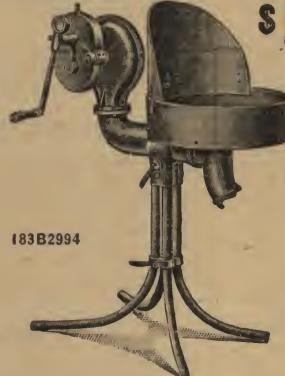
CHAMPION LANCASTER GEARED FORGE



183B2990 — Recommended for farmers' use. A well built, low priced machine. It is a strong, light forge for all kinds of portable work. Can be easily moved about, and produces a strong, steady draft with little exertion. Crank can be moved either way. Cast iron hearth. Diameter, 22 in. Depth, 3½ in. Strong pipe legs. Height to top of hearth, 31½ in. Diameter of fan case, 10 in. With sheet steel hood. Complete as illustrated. Shipping wt., about 130 lbs. Each \$12.70

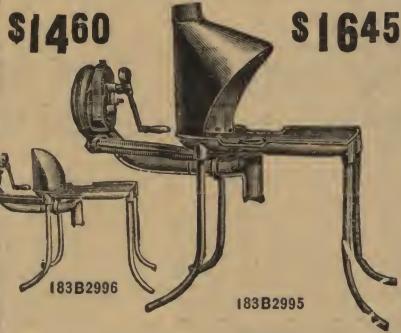
183B2992 — Same as above, but with shield instead of hood. Shipping weight, about 120 lbs. Each \$11.30

CHAMPION LANCASTER GEARED FORGE



183B2994 — Champion Lancaster Geared Steel Rivet Forge. Style 48. A well made, direct drive Rivet Forge with sheet steel hearth and shield. A convenient, light and serviceable forge at a moderate price. Legs are of steel, readily removable. Diameter of hearth, 18 in. Depth, 4¾ in. Height to top of hearth, 34 in. Blower is smooth running and gives a strong, continuous blast by turning in either direction. Diameter of fan case, 10 in. Nicely painted. Shipping weight, about 125 lbs. Each \$13.50

CHAMPION LANCASTER GEARED FORGE



183B2995 — The Champion Lancaster Geared Agricultural Forge. An excellent, well built machine at a low price. The gearing is the same as in our Lancaster Blower Head and produces a good steady blast. Crank can be turned either way. Diameter of fan case, 10 in. Has a large, roomy cast iron hearth; size, 23x36 in. Depth, 3¾ in. Height to top of hearth, 30 in. Strong pipe legs. With sheet steel hood, nicely painted. Complete, as illustrated. Shipping weight, about 180 lbs. Each \$16.45

183B2996 — Same as above, with sheet steel shield instead of hood. Shipping wt. about 170 lbs. Each \$14.60

CHAMPION 400 GEARED FORGE



Has the famous 400 high speed, noiseless gearing. Adjustable ball bearings. Operates with marvelous ease. Will create a welding heat on 4 in. bar iron in ten minutes. Easily taken apart. Adapted for railroads, tank builders, miners, or any portable work requiring compactness and lightness with a strong blast. Diameter of fan case, 9 in. Sheet steel hearth. Diameter, 18 in. Depth, 5 in. Height to top of hearth, 33 in. Strong pipe legs. Nicely painted.

183B3020 — With sheet steel shield as shown. Shipping weight, about 130 lbs. Each \$15.95

183B3021 — Same as above, but with half hood instead of shield. Height to top of hood, 60 in. Style 402. Shipping weight, about 120 lbs. Each \$17.50

CHAMPION LEVER FORGE



183B2986 — Forge complete with shield as illustrated. Shipping weight, about 155 lbs. Each \$9.85

183B2987 — Forge complete with open hood. Shipping weight, about 165 lbs. Each \$10.50

PORTABLE LEVER FORGE



183B2970 — Designed for farmers' and planters' use, and suitable for all kinds of light repairing. Has cast iron hearth. Diameter, 18 in. Depth, 3½ in. Height to top of hearth, 33 in. Fitted with heavy pipe legs, braced at the bottom. The ratchet lever motion is simple and positive. Diameter of fan case, 8 in. Complete with sheet steel shield or wind guard, as illustrated. Shipping weight, about 82 lbs. Each \$4.40

CHAMPION AGRICULTURAL FORGE

AN EXCELLENT LOW PRICED GENERAL PURPOSE FORGE

\$550 WITH HOOD

\$510 WITH SHIELD

Usual Retail Value, \$8.00 to \$10.00 each

A strong, compact, well constructed forge, which we offer you at a decided bargain price. It will enable you to do most of your blacksmith work, produces a strong blast and is especially designed for the farmer and planter.

Has a heavy cast iron hearth. Diameter, 22 in. Depth, 3½ in. Three tubular steel legs. Made of heavy wrought pipe, braced at the bottom. Permit the forge to stand firmly on uneven ground. Height to top of hearth, 33 in. The heaviest and most substantial farmers' forge of this type that is built. The ratchet lever motion is positive and simple, never slips and produces a strong blast with only a slow motion of the lever. Diameter of fan case, 9 in., nicely painted.

The hood can be connected with a stove pipe making the forge suitable for indoor use. Shipping weight, about 105 lbs.

183B2972 — Forge, complete with sheet steel hood. Each \$5.50

183B2974 — Same forge as above but with sheet steel shield, instead of hood. Shipping weight, about 95 lbs.

An excellent forge for all outside repair work and a big bargain at our price.

Each \$5.10

CHAMPION 400 GEARED FORGE



A light, stiff and practical forge for construction work, railroads, bridges, builders, boilermakers, etc. Blast is produced by turning handle in either direction.

Celebrated Champion 400 high speed, noiseless blower mechanism. Ball bearings. Gearing enclosed in a dust-proof casing. Structural steel frame, thoroughly braced. Strong, stiff and light. Easy running and noiseless and will produce a blast sufficient to cover the entire hearth with a hot fire if so desired. Sheet steel hearth, 24x24 in. Depth, 5¾ in. Height to top of hearth, 30 in. Braced angle steel legs. Diameter of fan case, 9 in. Nicely painted.

183B3028 — With sheet steel shield only (without hood). Shipping weight, about 175 lbs. Each \$20.95

183B3029 — Complete with sheet steel half hood, as illustrated. Shipping weight, about 185 lbs. Each \$22.75

BLACKSMITHS BLOWERS, TIRE BENDERS AND LATHES

LANCASTER GEARED BLOWER

183B3054—A substantial and well built blower. Has no belt, ratchet or clutch. Runs easily. Crank can be turned in either direction.

Head is adjustable and mounted on a substantial base. Diameter of fan, 12 in. Produces a strong, steady blast.

With Tuyere Iron and pipe as illustrated. Shipping wt., 116 lbs.

Price, each \$10.40



CHAMPION MIDWAY GEARED BLOWER

183B3052—A substantial direct driven blower, with spiral cross gears all enclosed in a dustproof casing.

The gearings are all accurately machined and run easily. Crank can be turned in either direction. Has no belts, ratchets or clutches; is simple and durable. The head is mounted on a substantial base and takes up little room in a shop.

Diameter of fan, 12 inches.

Produces a strong, continuous draft.

With heavy 50 pound Tuyere Iron and pipe, as illustrated. Shipping wt., about 168 lbs.

Price, each \$12.95

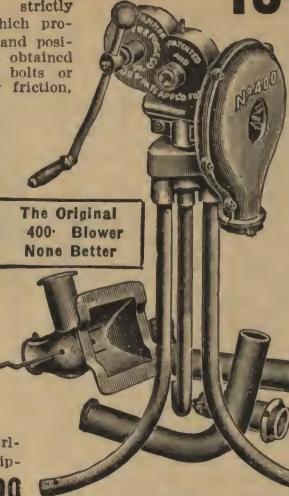


FAMOUS CHAMPION 400 BLOWER \$18.00

183B3050—A fine, strictly high grade machine, which produces a strong, regular and positive blast, equal to that obtained by power. It has no bolts or pins of small gears or friction, and is fitted throughout with the highest grade of adjustable ball bearings.

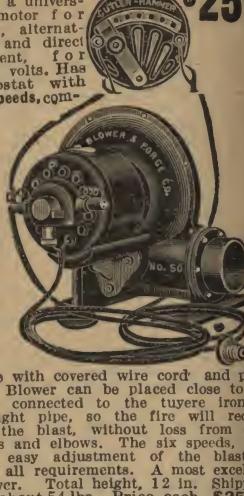
The working parts are machined and cut from the solid metal and enclosed in an oil-tight casing. It runs noiseless, smooth and surprisingly easy. Blast is produced by turning crank in either direction. The blower is very compact, takes little floor space and can be taken apart for transportation and set up again in a few minutes. Shipping wt., average 110 lbs.; diameter of fan, 12 in.

Complete with new Whirlwind Tuyere Iron and piping as illustrated. Each \$18.00



CHAMPION ELECTRIC BLOWER \$25.00

183B3062—Has a universal motor for both, alternating and direct current, for 110 volts. Has rheostat with six speeds, com-



TUYERE IRONS



183B3074—Single Duck Nest pattern. Made of cast iron. Without blast regulating device. Total length, about 16 inches. Total width, about 12 inches. Height, about 3 1/2 inches. Average shipping weight, 13 lbs. Price, each .38c

CLARK'S TUYERE IRON



183B3076—Medium size No. 2. Made of cast iron. With blast regulating device. Total length, about 16 inches. Total width, about 12 inches. Height, about 4 1/4 inches. Average shipping weight, 22 lbs. Price, each .84c

SUTTON TUYERE IRON



183B3078—The Sutton Tuyere Iron and Fire Bowl. Made of cast iron, large and heavy. Insures a clean, bright fire. Will give satisfaction. Size of fire bowl, 13 1/4 x 11 1/2 in. Average ship. wt., 41 lbs. Price, each .84c

HAND AND MOULDERS BELLOWS



183B3072—Can be used as a Blacksmith's Hand and Fire Bowl. Made of cast iron, large and heavy. Insures a quick, strong blast. Bellows of good grade leather. Woodwork thoroughly kiln-dried. Quality and workmanship of the best. Excellent values.

STANDARD BLACKSMITHS' BELLOWS



183B3070—Bellows of special flexible leather. Woodwork thoroughly kiln-dried. Quality and workmanship of the best. Excellent values.

Width	Length of body	Ship. wt.	Each
24 in.	2 ft. 10 in.	44 lbs.	\$ 5.10
26 in.	45 lbs.	5.50	
28 in.	51 lbs.	6.00	
30 in.	57 lbs.	6.50	
32 in.	69 lbs.	7.10	
34 in.	75 lbs.	8.00	
36 in.	82 lbs.	9.00	
38 in.	99 lbs.	10.00	
40 in.	97 lbs.	11.50	

NORTON TUYERE IRON



183B3080—Convenient, well made and low priced. Made of heavy cast iron. The blast is regulated by turning the large rod. Ashes removed by pulling small rod. Levers and spring easily changed to right or left-hand side. Length, 28 in. Width, 18 1/4 in. Height, 6 1/4 in. Average shipping weight, 27 lbs. Price, each .96c

WARREN TUYERE IRON



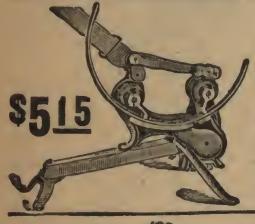
183B3081—A favorite with many. Made of heavy cast iron. Ball with unequal sides attached to upper handle regulates the blast. Lower rod is for removing ashes. Length, 29 in. Width, 15 in. Height, 6 1/4 in. Average shipping weight, 31 lbs. Price, each \$1.35

WHIRLWIND TUYERE IRON



183B3084—blast comes through three slots. Produces intense heat. Revolving clinker attachment. Length, 10 1/2 in. Width, 8 3/4 in. Height, 14 1/2 in. Average shipping weight, 56 lbs. Price, each \$4.50

BLACKSMITHS TIRE SHRINKERS



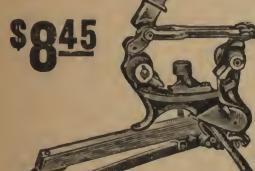
PLAIN MOLE SHRINKER \$5.15

Without Anti-Kink Attachment. Made in three sizes. Strong and substantial, of the best materials, complete with wood lever. It is important that tire be properly heated.

183B3091—Size No. 1. Width of bed, 2 1/4 in. For light buggy tires. Average shipping weight, 128 pounds. Price, each \$5.15

183B3092—Size No. 2. Width of bed, 3 1/2 in. For medium work. Average shipping weight, 210 lbs. Price, each \$7.25

183B3093—Size No. 3. Width of bed, 4 1/2 in. For heavy wagons. Average shipping weight, 270 lbs. Price, each \$9.60

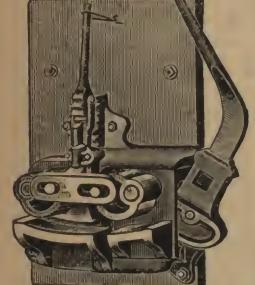


MOLE TIRE SHRINKER (WITH ANTI-KINK ATTACHMENT) \$8.45

It is not necessary to remove the tire until it is upset as much as required. The patent anti-kinking attachment holds the tire down and effectively prevents kinking or buckling. The pressure can be regulated by the foot. It is important that the tire be properly heated. Complete with 59 inch wood lever.

183B3095—Size 2. For medium work. Bed, 3 in. Length, 27 1/2 in. Average shipping weight, 212 lbs. Price, each \$8.45

183B3096—Size 3. For medium and heavy work. Bed 4 in. Length, 29 in. Average shipping weight, 271 lbs. Price, each \$12.30



STODDARD TIRE UPSETTER \$9.30

Made of the best material, occupies but little space and can be operated by one man. Has only to be bolted to a plank and fixed upright; always ready for use. Will not kink the tire. We include a short lever only, to which a longer bar can easily be welded by any blacksmith.

183B4002—Size 2. Is a 4-in. machine. Will upset any tire up to 4 in. wide. Length, 15 in. Width, 15 in. Height, 18 in. Average shipping weight, 245 lbs. Price, each \$9.30

183B4003—Size 3. Is a special 4-in. machine. Has a set of loose jaws, also for upsetting axles from 1 to 1 1/2 in. square. Length, 24 in. Width, 19 in. Height, 20 1/2 in. Average shipping weight, 300 lbs. Price, each \$11.50



CHAMPION TIRE SHRINKER

183B4005—Will shrink any size tires up to 4x1 in., or axles up to 1 1/4 in. square. Place the tire between the jaws, then draw the cams against the tire, and with but a little pressure on the handle, you can shrink the tire to suit. It is important that the tire be always properly heated. Made of heavy cast iron. Compact and durable. Total length, about 24 inches. Total width, about 8 inches. Length of wood handle, about 45 inches. Average shipping weight, 150 lbs. Price, each \$8.65



LAKESIDE TIRE SHRINKER A RAPID POWERFUL MACHINE \$19.85

183B4008—Lakeside Tire and Axle Shrinker. A stout, powerful machine. Frame is made of cast iron. Strong and well designed. The jaws are made from tool steel, with machine cut teeth, properly tempered, and can be quickly thrown in or out by means of the hand lever. Holds the tire with a perfect grip. Will shrink any size tire from the smallest buggy tire up to a round edge tire 4 in. wide by 1 in. thick, and axles up to 1 1/4 in. square. It is important that tires be properly heated. Total length, about 22 inches. Total width, about 9 inches. Total height, about 24 inches. Length of Lever, about 47 inches. Average shipping weight, 350 lbs. Regular \$25.00 value. Price, each \$19.85



HAND PUNCHING MACHINE

183B4040—A compact and substantial bench punch. Heavy cast iron, with hand lever. Capacity in soft steel or iron up to 3/8 in. thick of punching holes up to 3/8 inches diameter. Not suitable for work by which it would be subjected to a greater strain. Depth of throat, 4 in. Length of lever, 26 in. Complete with one 3/8 in. round punch and die. Weight of machine, 58 lbs. Average shipping weight, 70 lbs. Price, each \$13.25

183B4041—For round holes, diameter 3/8 in. Average shipping weight, 1 lb. Price, per set \$1.95

TIRE BENDERS

GEARED TIRE BENDERS \$5.25



183B4012—TIRE BENDER, WITH GEAR AND PINION

Has turned steel rollers, shafts and bearings. Mounted on a heavy cast iron base. Will bend a 4 1/4 inch tire or smaller, to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 8 inches. Height, about 12 inches. Average ship. wt., 100 lbs. Price, each \$5.25

183B4013—Tire Bender, with gear and pinion. Has turned steel rollers and bearings. Mounted on a heavy cast iron base. Will bend a 6 in. tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, about 12 inches. Average shipping wt., 116 lbs. Price, each \$5.80

183B4014—Tire Bender, with gear and pinion. Has turned steel rollers and bearings. Mounted on a heavy cast iron base. Will bend a 6 in. tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, about 12 inches. Average shipping wt., 116 lbs. Price, each \$5.80

183B4015—Tire Bender, with gear and pinion. Has turned steel rollers and bearings. Mounted on a heavy cast iron base. Will bend a 6 in. tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, about 12 inches. Average shipping wt., 116 lbs. Price, each \$5.80

183B4016—Tire Bender, with gear and pinion. Has turned steel rollers and bearings. Mounted on a heavy cast iron base. Will bend a 6 in. tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, about 12 inches. Average shipping wt., 116 lbs. Price, each \$5.80

183B4017—Tire Bender, with gear and pinion. Has turned steel rollers and bearings. Mounted on a heavy cast iron base. Will bend a 6 in. tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, about 12 inches. Average shipping wt., 116 lbs. Price, each \$5.80

183B4018—Tire Bender, with gear and pinion. Has turned steel rollers and bearings. Mounted on a heavy cast iron base. Will bend a 6 in. tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, about 12 inches. Average shipping wt., 116 lbs. Price, each \$5.80

183B4019—Tire Bender, with gear and pinion. Has turned steel rollers and bearings. Mounted on a heavy cast iron base. Will bend a 6 in. tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, about 12 inches. Average shipping wt., 116 lbs. Price, each \$5.80

183B4020—Tire Bender, with gear and pinion. Has turned steel rollers and bearings. Mounted on a heavy cast iron base. Will bend a 6 in. tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, about 12 inches. Average shipping wt., 116 lbs. Price, each \$5.80

183B4021—Tire Bender, with gear and pinion. Has turned steel rollers and bearings. Mounted on a heavy cast iron base. Will bend a 6 in. tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, about 12 inches. Average shipping wt., 116 lbs. Price, each \$5.80

183B4022—Tire Bender, with gear and pinion. Has turned steel rollers and bearings. Mounted on a heavy cast iron base. Will bend a 6 in. tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, about 12 inches. Average shipping wt., 116 lbs. Price, each \$5.80

183B4023—Tire Bender, with gear and pinion. Has turned steel rollers and bearings. Mounted on a heavy cast iron base. Will bend a 6 in. tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, about 12 inches. Average shipping wt., 116 lbs. Price, each \$5.80

183B4024—Tire Bender, with gear and pinion. Has turned steel rollers and bearings. Mounted on a heavy cast iron base. Will bend a 6 in. tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, about 12 inches. Average shipping wt., 116 lbs. Price, each \$5.80

183B4025—Tire Bender, with gear and pinion. Has turned steel rollers and bearings. Mounted on a heavy cast iron base. Will bend a 6 in. tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, about 12 inches. Average shipping wt., 116 lbs. Price, each \$5.80

183B4026—Tire Bender, with gear and pinion. Has turned steel rollers and bearings. Mounted on a heavy cast iron base. Will bend a 6 in. tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, about 12 inches. Average shipping wt., 116 lbs. Price, each \$5.80

183B4027—Tire Bender, with gear and pinion. Has turned steel rollers and bearings. Mounted on a heavy cast iron base. Will bend a 6 in. tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, about 12 inches. Average shipping wt., 116 lbs. Price, each \$5.80

183B4028—Tire Bender, with gear and pinion. Has turned steel rollers and bearings. Mounted on a heavy cast iron base. Will bend a 6 in. tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, about 12 inches. Average shipping wt., 116 lbs. Price, each \$5.80

183B4029—Tire Bender, with gear and pinion. Has turned steel rollers and bearings. Mounted on a heavy cast iron base. Will bend a 6 in. tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, about 12 inches. Average shipping wt., 116 lbs. Price, each \$5.80

183B4030—Tire Bender, with gear and pinion. Has turned steel rollers and bearings. Mounted on a heavy cast iron base. Will bend a 6 in. tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, about 12 inches. Average shipping wt., 116 lbs. Price, each \$5.80

183B4031—Tire Bender, with gear and pinion. Has turned steel rollers and bearings. Mounted on a heavy cast iron base. Will bend a 6 in. tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, about 12 inches. Average shipping wt., 116 lbs. Price, each \$5.80

183B4032—Tire Bender, with gear and pinion. Has turned steel rollers and bearings. Mounted on a heavy cast iron base. Will bend a 6 in. tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, about 12 inches. Average shipping wt., 116 lbs. Price, each \$5.80

183B4033—Tire Bender, with gear and pinion. Has turned steel rollers and bearings. Mounted on a heavy cast iron base. Will bend a 6 in. tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, about 12 inches. Average shipping wt., 116 lbs. Price, each \$5.80

183B4034—Tire Bender, with gear and pinion. Has turned steel rollers and bearings. Mounted on a heavy cast iron base. Will bend a 6 in. tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, about 12 inches. Average shipping wt., 116 lbs. Price, each \$5.80

183B4035—Tire Bender, with gear and pinion. Has turned steel rollers and bearings. Mounted on a heavy cast iron base. Will bend a 6 in. tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, about 12 inches. Average shipping wt., 116 lbs. Price, each \$5.80

183B4036—Tire Bender, with gear and pinion. Has turned steel rollers and bearings. Mounted on a heavy cast iron base. Will bend a 6 in. tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, about 12 inches. Average shipping wt., 116 lbs. Price, each \$5.80

183B4037—Tire Bender, with gear and pinion. Has turned steel rollers and bearings. Mounted on a heavy cast iron base. Will bend a 6 in. tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, about 12 inches. Average shipping wt., 116 lbs. Price, each \$5.80

183B4038—Tire Bender, with gear and pinion. Has turned steel rollers and bearings. Mounted on a heavy cast iron base. Will bend a 6 in. tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, about 12 inches. Average shipping wt., 116 lbs. Price, each \$5.80

183B4039—Tire Bender, with gear and pinion. Has turned steel rollers and bearings. Mounted on a heavy cast iron base. Will bend a 6 in. tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, about 12 inches. Average shipping wt., 116 lbs. Price, each \$5.80

183B4040—Tire Bender, with gear and pinion. Has turned steel rollers and bearings. Mounted on a heavy cast iron base. Will bend a 6 in. tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, about 12 inches. Average shipping wt., 116 lbs. Price, each \$5.80

183B4041—Tire Bender, with gear and pinion. Has turned steel rollers and bearings. Mounted on a heavy cast iron base. Will bend a 6 in. tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, about 12 inches. Average shipping wt., 116 lbs. Price, each \$5.80

183B4042—Tire Bender, with gear and pinion. Has turned steel rollers and bearings. Mounted on a heavy cast iron base. Will bend a 6 in. tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, about 12 inches. Average shipping wt., 116 lbs. Price, each \$5.80

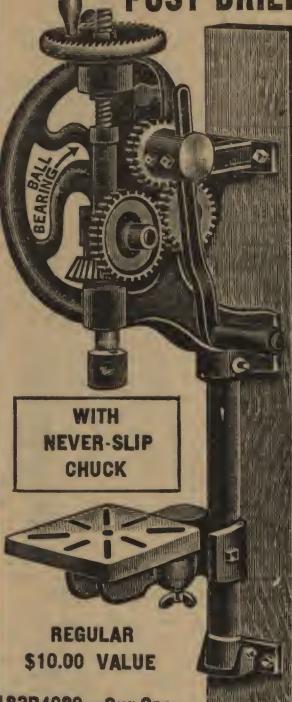
183B4043—Tire Bender, with gear and pinion. Has turned steel rollers and bearings. Mounted on a heavy cast iron base. Will bend a 6 in. tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, about 12 inches. Average shipping wt., 116 lbs. Price, each \$5.80

183B4044—Tire Bender, with gear and pinion. Has turned steel rollers and bearings. Mounted on a heavy cast iron base. Will bend a 6 in. tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, about 12 inches. Average shipping wt., 116 lbs. Price, each \$5.80

183B4045—Tire Bender, with gear and pinion. Has turned steel rollers and bearings. Mounted on

BLACKSMITHS' HIGH GRADE EASY RUNNING POST DRILLS

BALL BEARING POST DRILL



WITH
NEVER-SLIP
CHUCK

REGULAR
\$10.00 VALUE

183B4080—Our Spe-
cial Post Drill, fitted

with easy running ball bearings,
and with automatic self-feed
attachment. Has two speeds,
fast and slow, and can be
quickly changed from one to
the other to suit all kinds of
work. Table is slotted,
spindle has an up and down
run of $3\frac{1}{2}$ in. Diameter of
spindle $1\frac{1}{8}$ in., bored to take
drill bits with $\frac{1}{2}$ -in. round
shanks. Journal bearings
are all ground to a true and accurate
fit, will drill a hole up to $1\frac{1}{4}$ in. and
to the center of a 15-in. circle. A
light running durable machine which
we are offering at a very low price.
Average ship. wt., 110 lbs. Each,
without drill bits \$7.20

FAMOUS NEVER-SLIP CHUCK

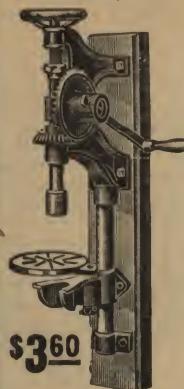
All of our Black-
smith's Post Drills on
this page are fitted with
the Never-slip Chuck,
which absolutely prevents
the bit from turning or
slipping.

AUTOMATIC FEED DRILL FRAME
FITS VARIOUS HAND DRILLS

183B4168—Its use will convert our hand drills No. 85B1278, 85B1265 or 85B1270 into bench drill with automatic feed. Hand drills readily removable. Will drill to center of a 5-in. circle. Distance from chuck to table, about 9 in. Different ratios of feed obtainable by turning adjusting screw. Table may be raised and lowered by hand. Made of cast iron, with wrought steel upright and feed screw. Finely finished. Shipping weight, about 15 lbs. Each \$2.75

HAND-FEED POST DRILL

(With Never-slip Chuck)



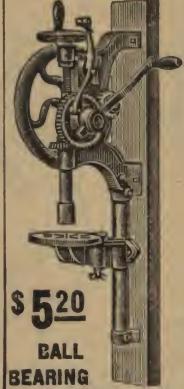
\$3.60

BALL BEARING

183B4085—This ma-
chine will drill to the
center of a 12-in. cir-
cle and will drill in
holes up to $\frac{3}{4}$ in.
Diam. of spindle, $\frac{1}{2}$
in. Has an up and
down run of 3 in. It
is made of the best
material. Bearings
ground out of solid
metal; spindle fitted
for $\frac{1}{2}$ -inch round
shank drills. Has a
slotted swing table, is
well finished and is
a good reliable ma-
chine at a low price.
Average shipping wt.,
54 lbs. Each (without
drill bits) \$3.60

CHAMPION SELF- FEED POST DRILL

(With Never-slip Chuck)



\$5.20

BALL BEARING

183B4088—Cham-
pion Blacksmith Self-
Feed Post Drill is made
first class in every re-
spect. Has a single
speed, with back gear
and self-feed attachment.
All bearings are ground
out of solid metal to a per-
fect fit. From the solid
metal. Table is slot-
ted and planed off on
top side. Will drill
hole up to $\frac{3}{4}$ -in. and
to center of a 12-in.
circle. Diameters of
spindle, $\frac{1}{2}$ in. Bored to
take $\frac{1}{2}$ -in. round
shank drills. A good
durable machine at a
low price. Average
shipping weight, 80
lbs. Usual \$8.50
to \$10.00 retail value.
Each (without
drill bits) \$5.20

183B4090—A light
running, high-class
machine. Accurately
cut gears. Will drill
up to 1-in. holes to
center of a $1\frac{1}{4}$ -in.
circle. Has full back
gear with one speed.
Diameter of spindle,
 $1\frac{1}{8}$ in. Feeds $3\frac{1}{2}$ in.
Fitted with slotted
swing table, and pat-
tent Never-slip chuck,
to take drills with $\frac{1}{2}$ -
in. round shanks.
Average shipping wt.,
90 lbs. Usual \$8.50
to \$10.00 retail value.
Each (without
drill bits) \$5.95

CHAMPION SELF- FEED POST DRILL

(With Never-slip Chuck)



\$5.95

SELF FEEDING

183B4090—A light
running, high-class
machine. Accurately
cut gears. Will drill
up to 1-in. holes to
center of a $1\frac{1}{4}$ -in.
circle. Has full back
gear with one speed.
Diameter of spindle,
 $1\frac{1}{8}$ in. Feeds $3\frac{1}{2}$ in.
Fitted with slotted
swing table, and pat-
tent Never-slip chuck,
to take drills with $\frac{1}{2}$ -
in. round shanks.
Average shipping wt.,
90 lbs. Usual \$8.50
to \$10.00 retail value.
Each (without
drill bits) \$5.95

CHAMPION POST DRILL

(With Never-slip Chuck)



\$8.25

BALL BEARING

183B4095—Will drill
to the center of a 15-in.
circle, and up to $1\frac{1}{4}$
in. hole. All of the
bearings are ground
out of solid metal to a
perfect fit. Has double
journal bearings, also two
speeds on the right hand
side of the drill, which
can be changed in an
instant to suit all kinds
of work. Diameter of
spindle, $1\frac{1}{8}$ in. Feeds $3\frac{1}{2}$ in.
Fitted with automatic
self-feed system of
the latest improved
pattern. The table is large
and slotted so the opera-
tor can surely hold
work on for drilling.
Spindle is bored to take
 $\frac{1}{2}$ -in. round-shank drills.
Average shipping weight,
115 lbs. Each (without
drill bits) \$8.25

CHAMPION BALL-BEAR- ING POST DRILL

(With Never-
Slip Chuck)



\$9.85

ELLIOTT CENTRE

16 INCH CIRCLE

Will drill holes
up to $1\frac{1}{4}$ in.
and to center of
a 16-in. circle.
Fitted with
easy running
Ball Bearings.

It is back
geared, with an
improved third
gear principle, which
gives the second
speed the same crank
motion as on the first speed.

The improved third
gear being part of
the handle hub, there-
fore is disengaged when
using first speed, saving the
continuous labor of pulling along
an intermediate gear while
using the first speed. Has
double journal bearings and
self-feed attachment. Diam.
of spindle, $1\frac{1}{8}$ in. Bored to
take $\frac{1}{2}$ -in. round
shank drill bits.

183B4098—With hand
crank (without drill bits).
Av. ship. wt., 17 lbs.
Each \$9.85

183B4099—With pulley
(without drill bits).
Av. ship. wt., 127 lbs.
Each \$11.75

CHAMPION COMBINATION POST DRILL

NEVER-SLIP CHUCK
BALL BEARING

\$17.85

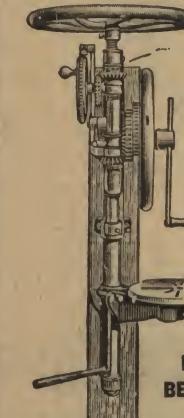
Champion Im-
proved Combination
Automatic self-feed, and
lever-feed upright post
drill. Has two speeds
and double back
gears. Crank turns in one
direction. An easy running
ball bearing machine. The
self-feed and lever-feed are
independent of each other and
can be instantly changed. The
drill bit can be raised out of
the hole just bored and reset to bore
the next hole without turning back the feed screw.

Drills holes up to $1\frac{1}{4}$ in. and to the
center of a 16-in. circle. Diam. of
spindle, $1\frac{1}{8}$ in. Has an up and down
run of 4 in. Chuck takes $\frac{1}{2}$ -in. round
shank drill bits.

183B4112—With hand crank (without
drill bits). Average shipping weight,
195 lbs. Each \$17.85

183B4113—With light and loose pul-
leys for power. Average shipping
weight, about 200 lbs.
(without drill bits). Each \$19.95

BLACK DIAMOND POST DRILL (WITH NEVER-SLIP CHUCK)



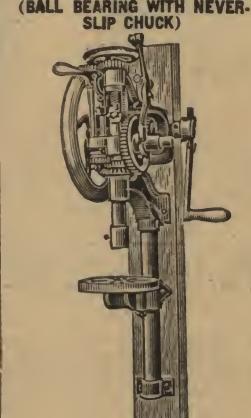
BALL
BEARING

183B4108—Champion Black
Diamond Drill is a machine with
merits worth looking into by all
who are in want of a large and
well-made blacksmith drill. The
gearing is designed for easy and
quick running. Will drill holes
up to $1\frac{1}{2}$ in. and to the center
of an 18-in. circle. Has both
top and side flywheels. Both
make two revolutions to one
revolution of the crank. All bear-
ings are ground out of solid
metal.

The second speed for heavy
drilling is very convenient, and
is changed in an instant simply
by a change of the crank handle
into the side fly-wheel.

Complete with wheel-holder
attachment to prevent scratching
finished wheels. Spindle bored
to take in $\frac{1}{2}$ -in. round shank
drills. Average shipping wt., 200
lbs. Each (without drills) \$13.85

CHAMPION QUICK RETURN DRILL (BALL BEARING WITH NEVER- SLIP CHUCK)



LEVER-FEED POST DRILL (WITH NEVER-SLIP CHUCK)

QUICK ACTION DRILL BALL BEARING

\$7.10

183B4104—The quick return
can be thrown into place while
the drill continues in motion,
where it remains until the bit is
raised out of the work, when it
automatically stops, and requires
no attention from the operator to
start the next hole. The distance
in the rising of the drill bit is
adjusted by a thumb screw and
automatically unshifts when out
of the work.

The crank has a forward motion
on both 1st and 2d speeds.
The bearings are ground out of
the solid metal to a perfect fit.
Has two speeds, double journal
bearings, slotted table, and self-
feed attachment. Will drill up to
a $1\frac{1}{4}$ -in. hole and to center
of a 15-in. circle. Chuck takes
 $\frac{1}{2}$ -in. round shank drills. Average
shipping wt., 126 lbs. Each (without
drills) \$9.85

183B4104—The quick return
can be thrown into place while
the drill continues in motion,
where it remains until the bit is
raised out of the work, when it
automatically stops, and requires
no attention from the operator to
start the next hole. The distance
in the rising of the drill bit is
adjusted by a thumb screw and
automatically unshifts when out
of the work.

The crank has a forward motion
on both 1st and 2d speeds.
The bearings are ground out of
the solid metal to a perfect fit.
Has two speeds, double journal
bearings, slotted table, and self-
feed attachment. Will drill up to
a $1\frac{1}{4}$ -in. hole and to center
of a 15-in. circle. Chuck takes
 $\frac{1}{2}$ -in. round shank drills. Average
shipping wt., 126 lbs. Each (without
drills) \$9.85

183B4104—The quick return
can be thrown into place while
the drill continues in motion,
where it remains until the bit is
raised out of the work, when it
automatically stops, and requires
no attention from the operator to
start the next hole. The distance
in the rising of the drill bit is
adjusted by a thumb screw and
automatically unshifts when out
of the work.

183B4104—The quick return
can be thrown into place while
the drill continues in motion,
where it remains until the bit is
raised out of the work, when it
automatically stops, and requires
no attention from the operator to
start the next hole. The distance
in the rising of the drill bit is
adjusted by a thumb screw and
automatically unshifts when out
of the work.

183B4104—The quick return
can be thrown into place while
the drill continues in motion,
where it remains until the bit is
raised out of the work, when it
automatically stops, and requires
no attention from the operator to
start the next hole. The distance
in the rising of the drill bit is
adjusted by a thumb screw and
automatically unshifts when out
of the work.

183B4104—The quick return
can be thrown into place while
the drill continues in motion,
where it remains until the bit is
raised out of the work, when it
automatically stops, and requires
no attention from the operator to
start the next hole. The distance
in the rising of the drill bit is
adjusted by a thumb screw and
automatically unshifts when out
of the work.

183B4104—The quick return
can be thrown into place while
the drill continues in motion,
where it remains until the bit is
raised out of the work, when it
automatically stops, and requires
no attention from the operator to
start the next hole. The distance
in the rising of the drill bit is
adjusted by a thumb screw and
automatically unshifts when out
of the work.

183B4104—The quick return
can be thrown into place while
the drill continues in motion,
where it remains until the bit is
raised out of the work, when it
automatically stops, and requires
no attention from the operator to
start the next hole. The distance
in the rising of the drill bit is
adjusted by a thumb screw and
automatically unshifts when out
of the work.

183B4104—The quick return
can be thrown into place while
the drill continues in motion,
where it remains until the bit is
raised out of the work, when it
automatically stops, and requires
no attention from the operator to
start the next hole. The distance
in the rising of the drill bit is
adjusted by a thumb screw and
automatically unshifts when out
of the work.

183B4104—The quick return
can be thrown into place while
the drill continues in motion,
where it remains until the bit is
raised out of the work, when it
automatically stops, and requires
no attention from the operator to
start the next hole. The distance
in the rising of the drill bit is
adjusted by a thumb screw and
automatically unshifts when out
of the work.

183B4104—The quick return
can be thrown into place while
the drill continues in motion,
where it remains until the bit is
raised out of the work, when it
automatically stops, and requires
no attention from the operator to
start the next hole. The distance
in the rising of the drill bit is
adjusted by a thumb screw and
automatically unshifts when out
of the work.

183B4104—The quick return
can be thrown into place while
the drill continues in motion,
where it remains until the bit is
raised out of the work, when it
automatically stops, and requires
no attention from the operator to
start the next hole. The distance
in the rising of the drill bit is
adjusted by a thumb screw and
automatically unshifts when out
of the work.

183B4104—The quick return
can be thrown into place while
the drill continues in motion,
where it remains until the bit is
raised out of the work, when it
automatically stops, and requires
no attention from the operator to
start the next hole. The distance
in the rising of the drill bit is
adjusted by a thumb screw and
automatically unshifts when out
of the work.

183B4104—The quick return
can be thrown into place while
the drill continues in motion,
where it remains until the bit is
raised out of the work, when it
automatically stops, and requires
no attention from the operator to
start the next hole. The distance
in the rising of the drill bit is
adjusted by a thumb screw and
automatically unshifts when out
of the work.

183B4104—The quick return
can be thrown into place while
the drill continues in motion,
where it remains until the bit is
raised out of the work, when it
automatically stops, and requires
no attention from the operator to
start the next hole. The distance
in the rising of the drill bit is
adjusted by a thumb screw and
automatically unshifts when out
of the work.

183B4104—The quick return
can be thrown into place while
the drill continues in motion,
where it remains until the bit is
raised out of the work, when it
automatically stops, and requires
no attention from the operator to
start the next hole. The distance
in the rising of the drill bit is
adjusted by a thumb screw and
automatically unshifts when out
of the work.

183B4104—The quick return
can be thrown into place while
the drill continues in motion,
where it remains until the bit is
raised out of the work, when it
automatically stops, and requires
no attention from the operator to
start the next hole. The distance
in the rising of the drill bit is
adjusted by a thumb screw and
automatically unshifts when out
of the work.

183B4104—The quick return
can be thrown into place while
the drill continues in motion,
where it remains until the bit is
raised out of the work, when it
automatically stops, and requires
no attention from the operator to
start the next hole. The distance
in the rising of the drill bit is
adjusted by a thumb screw and
automatically unshifts when out
of the work.

183B4104—The quick return
can be thrown into place while
the drill continues in motion,
where it remains until the bit is
raised out of the work, when it
automatically stops, and requires
no attention from the operator to
start the next hole. The distance
in the rising of the drill bit is
adjusted by a thumb screw and
automatically unshifts when out
of the work.

183B4104—The quick return
can be thrown into place while
the drill continues in motion,
where it remains until the bit is
raised out of the work, when it
automatically stops, and requires
no attention from the operator to
start the next hole. The distance
in the rising of the drill bit is
adjusted by a thumb screw and
automatically unshifts when out
of the work.

183B4104—The quick return
can be thrown into place while
the drill continues in motion,
where it remains until the bit is
raised out of the work, when it
automatically stops, and requires
no attention from the operator to
start the next hole. The distance
in the rising of the drill bit is
adjusted by a thumb screw and
automatically unshifts when out
of the work.

183B4104—The quick return
can be thrown into place while
the drill continues in motion,
where it remains until the bit is
raised out of the work, when it
automatically stops, and requires
no attention from the operator to
start the next hole. The distance
in the rising of the drill bit is
adjusted by a thumb screw and
automatically unshifts when out
of the work.

183B4104—The quick return
can be thrown into place while
the drill continues in motion,
where it remains until the bit is
raised out of the work, when it
automatically stops, and requires
no attention from the operator to
start the next hole. The distance
in the rising of the drill bit is
adjusted by a thumb screw and
automatically unshifts when out
of the work.

183B4104—The quick return
can be thrown into place while
the drill continues in motion,
where it remains until the bit is
raised out of the work, when it
automatically stops, and requires
no attention from the operator to
start the next hole. The distance
in the rising of the drill bit is
adjusted by a thumb screw and
automatically unshifts when out
of the work.

183B4104—The quick return
can be thrown into place while
the drill continues in motion,
where it remains until the bit is
raised out of the work, when it
automatically stops, and requires
no attention from the operator to
start the next hole. The distance
in the rising of the drill bit is
adjusted by a thumb screw and
automatically unshifts when out
of the work.

183B4104—The quick return
can be thrown into place while
the drill continues in motion,
where it remains until the bit is
raised out of the work, when it
automatically stops, and requires
no attention from the operator to
start the next hole. The distance
in the rising of the drill bit is
adjusted by a thumb screw and
automatically unshifts when out
of the work.

183B4104—The quick return
can be thrown into place while
the drill continues in motion,
where it remains until the bit is
raised out of the work, when it
automatically stops, and requires
no attention from the operator to
start the next hole. The distance
in the rising of the drill bit is
adjusted by a thumb screw and
automatically unshifts when out
of the work.

183B4104—The quick return
can be thrown into place while
the drill continues in motion,
where it remains until the bit is
raised out of the work, when it
automatically stops, and requires
no attention from the operator to
start the next hole. The distance
in the rising of the drill bit is
adjusted by a thumb screw and
automatically unshifts when out
of the work.

183B4104—The quick return
can be thrown into place while
the drill continues in motion,
where it remains until the bit is
raised out of the work, when it
automatically stops, and requires
no attention from the operator to
start the next hole. The distance
in the rising of the drill bit is
adjusted by a thumb screw and
automatically unshifts when out
of the work.

183B4104—The quick return
can be thrown into place while
the drill continues in motion,
where it remains until the bit is
raised out of the work, when it
automatically stops, and requires
no attention from the operator to
start the next hole. The distance
in the rising of the drill bit is
adjusted by a thumb screw and
automatically unshifts when out
of the work.

183B4104—The quick return
can be thrown into place while
the drill continues in motion,
where it remains until the bit is
raised out of the work, when it
automatically stops, and requires
no attention from the operator to
start the next hole. The distance
in the rising of the drill bit is
adjusted by a thumb screw and
automatically unshifts when out
of the work.

183B4104—The quick return
can be thrown into place while
the drill continues in motion,
where it remains until the bit is
raised out of the work, when it
automatically stops, and requires
no attention from the operator to
start the next hole. The distance
in the rising of the drill bit is
adjusted by a thumb screw and
automatically unshifts when out
of the work.

183B4104—The quick return
can be thrown into place while
the drill continues in motion,
where it remains until the bit is
raised out of the work, when it
automatically stops, and requires
no attention from the operator to
start the next hole. The distance
in the rising of the drill bit is
adjusted by a thumb screw and
automatically unshift

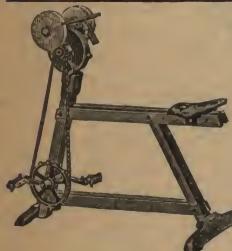
HAND AND FOOT POWER GRINDERS—EXTRA VALUES



EMERY FOOT GRINDER

STEEL FRAME

183B4218—For all kinds of grinding. Fast cutting. Corundum wheel, 6x1½ in. One-piece steel spindle and pinion. Gears accurately milled and encased. Strong wrought steel frame. Nicely japanned. Two pedals. Adjustable steel seat and tool rest. Shipping weight, 65 lbs. Each \$4.95



EMERY FOOT GRINDER

183B4226—Hardwood enclosed machine cut gears. Ball bearing, bicycle pedals, and steel drive chain. Has two fast cutting wheels, one coarse, one fine. Size, 6½ x 1 in. Ship. wt., 68 lbs. Each \$10.50

83B4227—Saw Gumming Wheel. With Collar. Wt., 1 lb. Each .45c
83B4228—Bevelled Mower Knife Wheel, with arbor. Wt., 2½ lbs. Each .90c

FAMILY GRINDSTONES



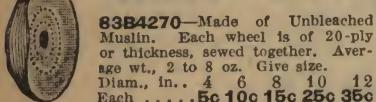
183B4340—Handy grindstone mounted on ball bearings. Selected stones. Light running and first class in every respect. Diameter of stone, 8 in. Average shipping wt., 15 lbs. Each .98c

GRINDER WITH LATHE ATTACHMENT



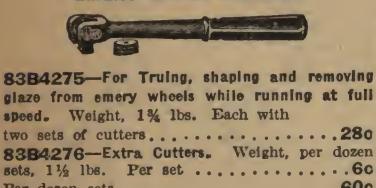
183B4231—For rapid grinding, wood turning, etc. Geared grinder with adjustable foot treadle and lathe bed. With 4x1 in. aluminum wheel and screw chuck for wood. Steel and cast iron. Well made and serviceable. Length of bed, 18 in. Will swing 5 in. Ship. wt., about 30 lbs. Each \$4.95

CLOTH BUFFING WHEELS



83B4270—Made of Unbleached Muslin. Each wheel is of 20-ply or thickness, sewed together. Average wt., 2 to 8 oz. Give size. Diam., in., 4 6 8 10 12 Each .5c 10c 15c 25c 35c

EMERY WHEEL DRESSER



83B4275—For Truing, shaping and removing glaze from emery wheels while running at full speed. Weight, 1½ lbs. Each with two sets of cutters. .28c
83B4276—Extra Cutters. Weight, per dozen sets, 1½ lbs. Per set .6c Per dozen sets .60c

SHERMAN WHEEL DRESSER



83B4280—Fast cutting corrugated tool steel cutters; especially for large wheels or grinders. Diameter cutter discs, 1½ in. Weight, 1½ lbs. Each, with two sets of cutters. .45c
83B4281—Extra cutters, set. .7c

Since we started this business, way back in 1872, we've made a lot of changes and improvements in our service, but our principles and our methods of conducting our business are still the same. We have never allowed ourselves to forget that we could not succeed unless we so conducted our affairs that we would have the confidence of our customers.

ADJUSTABLE BEARINGS



FLOOR STANDS

Heavy cast iron columns with tool retaining ring around top. An excellent mounting. Following are the dimensions. Ht. Wt. Size in. lbs. 1 32 32 2 32 37 3 32 75 4 28 100

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

\$2.05

ANVILS OF QUALITY AT REAL SAVINGS

SPECIAL FARMERS' ANVILS CHILLED IRON FACE

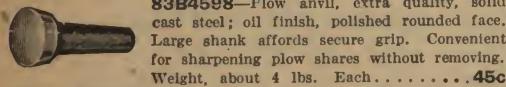


183B4590

A solid cast anvil made of fine new iron (no scrap metal used). It is properly proportioned and the face is smoothly ground and polished. Exactly what every farmer, mechanic and "handy man" wants. An excellent anvil for all ordinary shop and farm use, and a big bargain at our price. (Give weight wanted.)

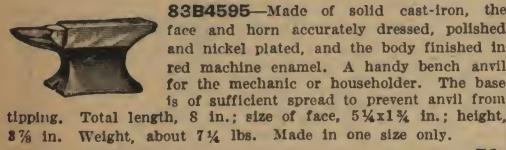
Weight 50 lbs. Each \$1.60
Weight 70 lbs. Each 2.20
Weight 100 lbs. Each 3.15

STEEL PLOW ANVIL



83B4598—Plow anvil, extra quality, solid cast steel; oil finish, polished rounded face. Large shank affords secure grip. Convenient for sharpening plow shares without removing. Weight, about 4 lbs. Each 45c

HANDY BENCH ANVIL



83B4595—Made of solid cast-iron, the face and horn accurately dressed, polished and nickel plated, and the body finished in red machine enamel. A handy bench anvil for the mechanic or householder. The base is of sufficient spread to prevent anvil from tipping. Total length, 8 in.; size of face, $5\frac{1}{4} \times 1\frac{1}{4}$ in.; height, 8 $\frac{1}{2}$ in. Weight, about 7 $\frac{1}{4}$ lbs. Made in one size only. Each 56c

We cannot supply hardies or other anvil tools to fit this anvil. Intended for light bench work only.

STANDARD AMERICAN WROUGHT ANVILS TEMPERED STEEL FACE



8 $\frac{1}{2}$ C

A POUND

FOR THE
EXPERT
BLACKSMITH.
"LAKESIDE"
BRAND

183B4580—The bodies of our American wrought anvils are forged from the best and toughest iron, welded at the waist, and faced with the finest quality of high grade tool steel, carefully welded on and will not come loose. The face is hard and true, and tempered by a special process which prevents the edges from chipping, giving a hard surface without being brittle.

The shape is of the latest improved design, graceful and practical, and each anvil rings true and clear as a bell. There is no better anvil made, and many thousands of them are now in daily use.

Made by skilled workmen in the best possible manner and thoroughly inspected and tested before leaving the factory.

Should this anvil break at the waist or its steel face become loose within one year from date of purchase, it will be replaced without charge.

You will find that these anvils combine the best materials and workmanship, are graceful in design, with a long, perfectly shaped horn, and equal in quality and finish to any anvil made. The base is of proper spread to insure against tipping.

We cannot always send exact weight, but will send the nearest we have to size wanted. (Give weight wanted.) Buy our Lakeside American Wrought Anvils If you want the best.

Weight, lbs. | 170 to 200 | 120 to 165 | 80 to 119 | 70 to 79 | 60 to 69 | 50 to 59
Per pound. | 8 $\frac{1}{2}$ c | 9 $\frac{1}{2}$ c | 10c | 10 $\frac{1}{2}$ c | 11c | 12 $\frac{1}{2}$ c

STEEL FACE CAST ANVILS TEMPERED STEEL FACE

183B4592

The body of this anvil is made from superior new pig iron. (No scrap metal used.) The face is one solid piece of tool steel, welded to the body by a patent process, and will not come loose. Accurately ground and tempered. Fitted with hole for anvil tools. The end of the horn is made entirely of tough, untempered steel and the top is covered with steel. An excellent, well-shaped anvil. (Give weight.) Wt., lbs. 20 30 40 50 60 80 100
2 lbs. Price 85c

BRAZIRON OUTFIT FOR BRAZING CAST IRON

83B4797—The best known and most reliable compound for brazing cast iron. Also excellent for brazing aluminum. Outfit consists of 1 jar Braziron, 1 box flux, 1 roll best brass spealer and full directions. Of great value in making many quick repairs on various machinery about the farm and home. Average weight, 2 lbs. Price 85c

BRAZIRON

For Brazing Cast Iron

83B4796—Every farmer and mechanic knows the value of a reliable, convenient compound for brazing together broken iron castings about the shop, farm, or home. Braziron can be depended upon when used in connection with a good spelter and flux. Weight, 1 lb. With directions.

Price 52c

LAKESIDE WELDING COMPOUND

83B4795—Lakeside welding compound is a product of our laboratories and is one of the best made. It sticks at a low heat and makes a clean, perfect weld on iron or steel. There is no sloughing or boiling off and no scale is formed. Will give satisfaction. In handy 5-lb. cans. Our price, per can. 40c

STANDARD FORGED STEEL ANVIL TOOLS AND HAMMERS

SQUARE FLATTERS Oil Finish (Give Size)



83B4600—Tempered, polished face. With eye for wood handle. Oil finished.

Size Face In. Approx. Weight Lbs. Each

$\frac{1}{2}$ 2 $\frac{1}{4}$ 2 $\frac{1}{2}$ 3 $\frac{1}{2}$ 3 $\frac{1}{4}$ 4 $\frac{1}{2}$ 5 $\frac{1}{2}$ 6 $\frac{1}{2}$ 7 $\frac{1}{2}$ 8 $\frac{1}{2}$ 9 $\frac{1}{2}$ 10 $\frac{1}{2}$ 11 $\frac{1}{2}$ 12 $\frac{1}{2}$ 13 $\frac{1}{2}$ 14 $\frac{1}{2}$ 15 $\frac{1}{2}$ 16 $\frac{1}{2}$ 17 $\frac{1}{2}$ 18 $\frac{1}{2}$ 19 $\frac{1}{2}$ 20 $\frac{1}{2}$ 21 $\frac{1}{2}$ 22 $\frac{1}{2}$ 23 $\frac{1}{2}$ 24 $\frac{1}{2}$ 25 $\frac{1}{2}$ 26 $\frac{1}{2}$ 27 $\frac{1}{2}$ 28 $\frac{1}{2}$ 29 $\frac{1}{2}$ 30 $\frac{1}{2}$ 31 $\frac{1}{2}$ 32 $\frac{1}{2}$ 33 $\frac{1}{2}$ 34 $\frac{1}{2}$ 35 $\frac{1}{2}$ 36 $\frac{1}{2}$ 37 $\frac{1}{2}$ 38 $\frac{1}{2}$ 39 $\frac{1}{2}$ 40 $\frac{1}{2}$ 41 $\frac{1}{2}$ 42 $\frac{1}{2}$ 43 $\frac{1}{2}$ 44 $\frac{1}{2}$ 45 $\frac{1}{2}$ 46 $\frac{1}{2}$ 47 $\frac{1}{2}$ 48 $\frac{1}{2}$ 49 $\frac{1}{2}$ 50 $\frac{1}{2}$ 51 $\frac{1}{2}$ 52 $\frac{1}{2}$ 53 $\frac{1}{2}$ 54 $\frac{1}{2}$ 55 $\frac{1}{2}$ 56 $\frac{1}{2}$ 57 $\frac{1}{2}$ 58 $\frac{1}{2}$ 59 $\frac{1}{2}$ 60 $\frac{1}{2}$ 61 $\frac{1}{2}$ 62 $\frac{1}{2}$ 63 $\frac{1}{2}$ 64 $\frac{1}{2}$ 65 $\frac{1}{2}$ 66 $\frac{1}{2}$ 67 $\frac{1}{2}$ 68 $\frac{1}{2}$ 69 $\frac{1}{2}$ 70 $\frac{1}{2}$ 71 $\frac{1}{2}$ 72 $\frac{1}{2}$ 73 $\frac{1}{2}$ 74 $\frac{1}{2}$ 75 $\frac{1}{2}$ 76 $\frac{1}{2}$ 77 $\frac{1}{2}$ 78 $\frac{1}{2}$ 79 $\frac{1}{2}$ 80 $\frac{1}{2}$ 81 $\frac{1}{2}$ 82 $\frac{1}{2}$ 83 $\frac{1}{2}$ 84 $\frac{1}{2}$ 85 $\frac{1}{2}$ 86 $\frac{1}{2}$ 87 $\frac{1}{2}$ 88 $\frac{1}{2}$ 89 $\frac{1}{2}$ 90 $\frac{1}{2}$ 91 $\frac{1}{2}$ 92 $\frac{1}{2}$ 93 $\frac{1}{2}$ 94 $\frac{1}{2}$ 95 $\frac{1}{2}$ 96 $\frac{1}{2}$ 97 $\frac{1}{2}$ 98 $\frac{1}{2}$ 99 $\frac{1}{2}$ 100 $\frac{1}{2}$ 101 $\frac{1}{2}$ 102 $\frac{1}{2}$ 103 $\frac{1}{2}$ 104 $\frac{1}{2}$ 105 $\frac{1}{2}$ 106 $\frac{1}{2}$ 107 $\frac{1}{2}$ 108 $\frac{1}{2}$ 109 $\frac{1}{2}$ 110 $\frac{1}{2}$ 111 $\frac{1}{2}$ 112 $\frac{1}{2}$ 113 $\frac{1}{2}$ 114 $\frac{1}{2}$ 115 $\frac{1}{2}$ 116 $\frac{1}{2}$ 117 $\frac{1}{2}$ 118 $\frac{1}{2}$ 119 $\frac{1}{2}$ 120 $\frac{1}{2}$ 121 $\frac{1}{2}$ 122 $\frac{1}{2}$ 123 $\frac{1}{2}$ 124 $\frac{1}{2}$ 125 $\frac{1}{2}$ 126 $\frac{1}{2}$ 127 $\frac{1}{2}$ 128 $\frac{1}{2}$ 129 $\frac{1}{2}$ 130 $\frac{1}{2}$ 131 $\frac{1}{2}$ 132 $\frac{1}{2}$ 133 $\frac{1}{2}$ 134 $\frac{1}{2}$ 135 $\frac{1}{2}$ 136 $\frac{1}{2}$ 137 $\frac{1}{2}$ 138 $\frac{1}{2}$ 139 $\frac{1}{2}$ 140 $\frac{1}{2}$ 141 $\frac{1}{2}$ 142 $\frac{1}{2}$ 143 $\frac{1}{2}$ 144 $\frac{1}{2}$ 145 $\frac{1}{2}$ 146 $\frac{1}{2}$ 147 $\frac{1}{2}$ 148 $\frac{1}{2}$ 149 $\frac{1}{2}$ 150 $\frac{1}{2}$ 151 $\frac{1}{2}$ 152 $\frac{1}{2}$ 153 $\frac{1}{2}$ 154 $\frac{1}{2}$ 155 $\frac{1}{2}$ 156 $\frac{1}{2}$ 157 $\frac{1}{2}$ 158 $\frac{1}{2}$ 159 $\frac{1}{2}$ 160 $\frac{1}{2}$ 161 $\frac{1}{2}$ 162 $\frac{1}{2}$ 163 $\frac{1}{2}$ 164 $\frac{1}{2}$ 165 $\frac{1}{2}$ 166 $\frac{1}{2}$ 167 $\frac{1}{2}$ 168 $\frac{1}{2}$ 169 $\frac{1}{2}$ 170 $\frac{1}{2}$ 171 $\frac{1}{2}$ 172 $\frac{1}{2}$ 173 $\frac{1}{2}$ 174 $\frac{1}{2}$ 175 $\frac{1}{2}$ 176 $\frac{1}{2}$ 177 $\frac{1}{2}$ 178 $\frac{1}{2}$ 179 $\frac{1}{2}$ 180 $\frac{1}{2}$ 181 $\frac{1}{2}$ 182 $\frac{1}{2}$ 183 $\frac{1}{2}$ 184 $\frac{1}{2}$ 185 $\frac{1}{2}$ 186 $\frac{1}{2}$ 187 $\frac{1}{2}$ 188 $\frac{1}{2}$ 189 $\frac{1}{2}$ 190 $\frac{1}{2}$ 191 $\frac{1}{2}$ 192 $\frac{1}{2}$ 193 $\frac{1}{2}$ 194 $\frac{1}{2}$ 195 $\frac{1}{2}$ 196 $\frac{1}{2}$ 197 $\frac{1}{2}$ 198 $\frac{1}{2}$ 199 $\frac{1}{2}$ 200 $\frac{1}{2}$ 201 $\frac{1}{2}$ 202 $\frac{1}{2}$ 203 $\frac{1}{2}$ 204 $\frac{1}{2}$ 205 $\frac{1}{2}$ 206 $\frac{1}{2}$ 207 $\frac{1}{2}$ 208 $\frac{1}{2}$ 209 $\frac{1}{2}$ 210 $\frac{1}{2}$ 211 $\frac{1}{2}$ 212 $\frac{1}{2}$ 213 $\frac{1}{2}$ 214 $\frac{1}{2}$ 215 $\frac{1}{2}$ 216 $\frac{1}{2}$ 217 $\frac{1}{2}$ 218 $\frac{1}{2}$ 219 $\frac{1}{2}$ 220 $\frac{1}{2}$ 221 $\frac{1}{2}$ 222 $\frac{1}{2}$ 223 $\frac{1}{2}$ 224 $\frac{1}{2}$ 225 $\frac{1}{2}$ 226 $\frac{1}{2}$ 227 $\frac{1}{2}$ 228 $\frac{1}{2}$ 229 $\frac{1}{2}$ 230 $\frac{1}{2}$ 231 $\frac{1}{2}$ 232 $\frac{1}{2}$ 233 $\frac{1}{2}$ 234 $\frac{1}{2}$ 235 $\frac{1}{2}$ 236 $\frac{1}{2}$ 237 $\frac{1}{2}$ 238 $\frac{1}{2}$ 239 $\frac{1}{2}$ 240 $\frac{1}{2}$ 241 $\frac{1}{2}$ 242 $\frac{1}{2}$ 243 $\frac{1}{2}$ 244 $\frac{1}{2}$ 245 $\frac{1}{2}$ 246 $\frac{1}{2}$ 247 $\frac{1}{2}$ 248 $\frac{1}{2}$ 249 $\frac{1}{2}$ 250 $\frac{1}{2}$ 251 $\frac{1}{2}$ 252 $\frac{1}{2}$ 253 $\frac{1}{2}$ 254 $\frac{1}{2}$ 255 $\frac{1}{2}$ 256 $\frac{1}{2}$ 257 $\frac{1}{2}$ 258 $\frac{1}{2}$ 259 $\frac{1}{2}$ 260 $\frac{1}{2}$ 261 $\frac{1}{2}$ 262 $\frac{1}{2}$ 263 $\frac{1}{2}$ 264 $\frac{1}{2}$ 265 $\frac{1}{2}$ 266 $\frac{1}{2}$ 267 $\frac{1}{2}$ 268 $\frac{1}{2}$ 269 $\frac{1}{2}$ 270 $\frac{1}{2}$ 271 $\frac{1}{2}$ 272 $\frac{1}{2}$ 273 $\frac{1}{2}$ 274 $\frac{1}{2}$ 275 $\frac{1}{2}$ 276 $\frac{1}{2}$ 277 $\frac{1}{2}$ 278 $\frac{1}{2}$ 279 $\frac{1}{2}$ 280 $\frac{1}{2}$ 281 $\frac{1}{2}$ 282 $\frac{1}{2}$ 283 $\frac{1}{2}$ 284 $\frac{1}{2}$ 285 $\frac{1}{2}$ 286 $\frac{1}{2}$ 287 $\frac{1}{2}$ 288 $\frac{1}{2}$ 289 $\frac{1}{2}$ 290 $\frac{1}{2}$ 291 $\frac{1}{2}$ 292 $\frac{1}{2}$ 293 $\frac{1}{2}$ 294 $\frac{1}{2}$ 295 $\frac{1}{2}$ 296 $\frac{1}{2}$ 297 $\frac{1}{2}$ 298 $\frac{1}{2}$ 299 $\frac{1}{2}$ 300 $\frac{1}{2}$ 301 $\frac{1}{2}$ 302 $\frac{1}{2}$ 303 $\frac{1}{2}$ 304 $\frac{1}{2}$ 305 $\frac{1}{2}$ 306 $\frac{1}{2}$ 307 $\frac{1}{2}$ 308 $\frac{1}{2}$ 309 $\frac{1}{2}$ 310 $\frac{1}{2}$ 311 $\frac{1}{2}$ 312 $\frac{1}{2}$ 313 $\frac{1}{2}$ 314 $\frac{1}{2}$ 315 $\frac{1}{2}$ 316 $\frac{1}{2}$ 317 $\frac{1}{2}$ 318 $\frac{1}{2}$ 319 $\frac{1}{2}$ 320 $\frac{1}{2}$ 321 $\frac{1}{2}$ 322 $\frac{1}{2}$ 323 $\frac{1}{2}$ 324 $\frac{1}{2}$ 325 $\frac{1}{2}$ 326 $\frac{1}{2}$ 327 $\frac{1}{2}$ 328 $\frac{1}{2}$ 329 $\frac{1}{2}$ 330 $\frac{1}{2}$ 331 $\frac{1}{2}$ 332 $\frac{1}{2}$ 333 $\frac{1}{2}$ 334 $\frac{1}{2}$ 335 $\frac{1}{2}$ 336 $\frac{1}{2}$ 337 $\frac{1}{2}$ 338 $\frac{1}{2}$ 339 $\frac{1}{2}$ 340 $\frac{1}{2}$ 341 $\frac{1}{2}$ 342 $\frac{1}{2}$ 343 $\frac{1}{2}$ 344 $\frac{1}{2}$ 345 $\frac{1}{2}$ 346 $\frac{1}{2}$ 347 $\frac{1}{2}$ 348 $\frac{1}{2}$ 349 $\frac{1}{2}$ 350 $\frac{1}{2}$ 351 $\frac{1}{2}$ 352 $\frac{1}{2}$ 353 $\frac{1}{2}$ 354 $\frac{1}{2}$ 355 $\frac{1}{2}$ 356 $\frac{1}{2}$ 357 $\frac{1}{2}$ 358 $\frac{1}{2}$ 359 $\frac{1}{2}$ 360 $\frac{1}{2}$ 361 $\frac{1}{2}$ 362 $\frac{1}{2}$ 363 $\frac{1}{2}$ 364 $\frac{1}{2}$ 365 $\frac{1}{2}$ 366 $\frac{1}{2}$ 367 $\frac{1}{2}$ 368 $\frac{1}{2}$ 369 $\frac{1}{2}$ 370 $\frac{1}{2}$ 371 $\frac{1}{2}$ 372 $\frac{1}{2}$ 373 $\frac{1}{2}$ 374 $\frac{1}{2}$ 375 $\frac{1}{2}$ 376 $\frac{1}{2}$ 377 $\frac{1}{2}$ 378 $\frac{1}{2}$ 379 $\frac{1}{2}$ 380 $\frac{1}{2}$ 381 $\frac{1}{2}$ 382 $\frac{1}{2}$ 383 $\frac{1}{2}$ 384 $\frac{1}{2}$ 385 $\frac{1}{2}$ 386 $\frac{1}{2}$ 387 $\frac{1}{2}$ 388 $\frac{1}{2}$ 389 $\frac{1}{2}$ 390 $\frac{1}{2}$ 391 $\frac{1}{2}$ 392 $\frac{1}{2}$ 393 $\frac{1}{2}$ 394 $\frac{1}{2}$ 395 $\frac{1}{2}$ 396 $\frac{1}{2}$ 397 $\frac{1}{2}$ 398 $\frac{1}{2}$ 399 $\frac{1}{2}$ 400 $\frac{1}{2}$ 401 $\frac{1}{2}$ 402 $\frac{1}{2}$ 403 $\frac{1}{2}$ 404 $\frac{1}{2}$ 405 $\frac{1}{2}$ 406 $\frac{1}{2}$ 407 $\frac{1}{2}$ 408 $\frac{1}{2}$ 409 $\frac{1}{2}$ 410 $\frac{1}{2}$ 411 $\frac{1}{2}$ 412 $\frac{1}{2}$ 413 $\frac{1}{2}$ 414 $\frac{1}{2}$ 415 $\frac{1}{2}$ 416 $\frac{1}{2}$ 417 $\frac{1}{2}$ 418 $\frac{1}{2}$ 419 $\frac{1}{2}$ 420 $\frac{1}{2}$ 421 $\frac{1}{2}$ 422 $\frac{1}{2}$ 423 $\frac{1}{2}$ 424 $\frac{1}{2}$ 425 $\frac{1}{2}$ 426 $\frac{1}{2}$ 427 $\frac{1}{2}$ 428 $\frac{1}{2}$ 429 $\frac{1}{2}$ 430 $\frac{1}{2}$ 431 $\frac{1}{2}$ 432 $\frac{1}{2}$ 433 $\frac{1}{2}$ 434 $\frac{1}{2}$ 435 $\frac{1}{2}$ 436 $\frac{1}{2}$ 437 $\frac{1}{2}$ 438 $\frac{1}{2}$ 439 $\frac{1}{2}$ 440 $\frac{1}{2}$ 441 $\frac{1}{2}$ 442 $\frac{1}{2}$ 443 $\frac{1}{2}$ 444 $\frac{1}{2}$ 445 $\frac{1}{2}$ 446 $\frac{1}{2}$ 447 $\frac{1}{2}$ 448 $\frac{1}{2}$ 449 $\frac{1}{2}$ 450 $\frac{1}{2}$ 451 $\frac{1}{2}$ 452 $\frac{1}{2}$ 453 $\frac{1}{2}$ 454 $\frac{1}{2}$ 455 $\frac{1}{2}$ 456 $\frac{1}{2}$ 457 $\frac{1}{2}$ 458 $\frac{1}{2}$ 459 $\frac{1}{2}$ 460 $\frac{1}{2}$ 461 $\frac{1}{2}$ 462 $\frac{1}{2}$ 463 $\frac{1}{2}$ 464 $\frac{1}{2}$ 465 $\frac{1}{2}$ 466 $\frac{1}{2}$ 467 $\frac{1}{2}$ 468 $\frac{1}{2}$ 469 $\frac{1}{2}$ 470 $\frac{1}{2}$ 471 $\frac{1}{2}$ 472 $\frac{1}{2}$ 473 $\frac{1}{2}$ 474 $\frac{1}{2}$ 475 $\frac{1}{2}$ 476 $\frac{1}{2}$ 477 $\frac{1}{2}$ 478 $\frac{1}{2}$ 479 $\frac{1}{2}$ 480 <

SHOE YOUR OWN HORSES—USE EASY-FIT SHOES

EASY-FIT SUMMER HORSE SHOES

17c to 42c pair

NO HEATING—NO WELDING

Our Easy-Fit Prepared Horse Shoes are finished and shaped ready to apply. They are Toed, Heeled, and Clipped and the shape is so perfect it is seldom necessary to change them.

Made of a special analysis iron of a texture that will allow re-shaping without heating.

This is a great advantage to the horse owner. No expert skill required. Saves you time and money. Many thousands now in daily use. We know they will please you.



STANDARD GRADE IRON HORSE SHOES

15c SET \$3.75 KEG

Extra light weight Iron Horse Shoes. Best quality. Will work at any heat, from a cherry red to white, or cold if necessary. The shape is in correct lines, and they can be fitted with the least possible labor. The creasing is accurate, and the punching is clear through and at a proper angle for the nails. Perfect in quality, workmanship and finish.

EXTRA LIGHT HORSE SHOES

83B4755—In sets of four, two front and two hind shoes.
Size
Wt. per set, about, lbs.
Price, per set
183B4756—In kegs, of 100 pounds. All Front Shoes.

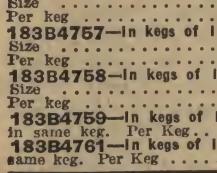
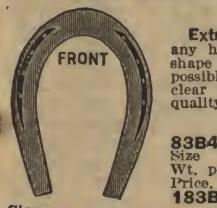
Size
Per kg
183B4757—In kegs of 100 pounds. All Hind Shoes.

Size
Per kg
183B4758—In kegs of 100 pounds. Both Front and Hind in same Keg.

Size
Per kg
183B4759—In kegs of 100 pounds. Assorted sizes. No. 2 front and hind, and No. 3 front and hind in same Keg. Per Keg

183B4761—In kegs of 100 pounds. Assorted sizes. No. 3 front and hind, and No. 4 front and hind in same Keg. Per Keg

183B4762—In kegs of 100 pounds. Assorted sizes. No. 4 front and hind, and No. 5 front and hind in same Keg. Per Keg



SUMMER FRONT SHOES

83B4751—Easy-Fit Front Shoes in pairs.

Size	1	2	3	4	5	6
Outside measure, in.	5 1/4 x 4 1/4	5 1/4 x 5 1/4	6 1/4 x 5 1/4	6 1/2 x 5 1/4	6 7/8 x 5 1/4	7 1/2 x 6 1/4
Weight, pair, about lbs.	2	2 1/2	3	3 1/4	4	4 1/4
Price, per pair	18c	22c	27c	30c	36c	42c

SUMMER HIND SHOES

83B4752—Easy-Fit Hind Shoes in pairs.

Size	1	2	3	4	5	6
Outside measure, in.	5 1/4 x 4 1/4	5 1/4 x 4 1/4	6 1/4 x 5 1/4	6 1/2 x 5 1/4	6 7/8 x 5 1/4	7 1/2 x 6 1/4
Wt., per pair, about lbs.	2	2 1/2	3	3 1/4	4	4 1/4
Price, per pair	17c	21c	26c	29c	36c	41c

EASY-FIT WINTER HORSE SHOES

13c to 38c pair

TAPPED READY FOR SCREW CALKS

Easy-Fit Prepared Winter Shoes are finished and shaped ready to wear. They are drilled and tapped ready for screw calks and can be re-shaped cold, without destroying the threads. This shoe when fitted with our Steel Center Screw Calks makes a perfect winter shoe and gives your horse a safe footing, even on the most icy roads.

Prices do not include the Steel Center Calks.

WINTER FRONT SHOES

83B4753—Easy-Fit Front Shoes in pairs.

Size	1	2	3	4	5	6
Outside measure, in.	5 1/4 x 4 1/4	5 1/4 x 4 1/4	5 1/4 x 4 1/4	6 1/4 x 5 1/4	6 1/4 x 5 1/4	7 1/2 x 6 1/4
Wt., per pair, about lbs.	1 1/4	1 1/4	2	3	3 1/2	3 1/2
Tapped for Calk, in.	1/8	7/16	7/16	9/16	9/16	9/16
Price, per pair	13c	17c	20c	22c	33c	38c

WINTER HIND SHOES

83B4754—Easy-Fit Hind Shoes in pairs.

Size	1	2	3	4	5	6
Outside measure, in.	5 1/4 x 4 1/4	5 1/4 x 4 1/4	5 1/4 x 4 1/4	6 1/4 x 5 1/4	6 1/4 x 5 1/4	7 1/2 x 6 1/4
Wt., per pair, about lbs.	1 1/4	1 1/4	2	2 1/2	2 1/2	3 1/2
Tapped for Calk, in.	1/8	7/16	7/16	9/16	9/16	9/16
Price, per pair	13c	17c	20c	25c	32c	38c



IRON SNOW OR ROADSTER HORSE SHOES

REGULAR STANDARD GRADE SNOW AND ROADSTER SHOES

Best quality, correct shape, and carefully made. Will work at any heat from a cherry red to a white heat, or cold if necessary. Accurately creased and punched clear through at a proper angle for the nails.

Perfect in quality, workmanship and finish.

REGULAR STANDARD SNOW SHOES

Size	0	1	2	3	4	5	6
Wt., per set, about, lbs.	2 1/4	2 1/4	3 1/4	4 1/4	5 1/4	6	6 1/2
Price, per set	14c	15c	17c	22c	27c	30c	35c

Size	0	1	2	3	4	5	6
Wt., per set, about, lbs.	2 1/4	2 1/4	3 1/4	4 1/4	5 1/4	6	6 1/2
Price, per set	14c	15c	17c	22c	27c	30c	35c

Size	0	1	2	3	4	5	6
Wt., per set, about, lbs.	2 1/4	2 1/4	3 1/4	4 1/4	5 1/4	6	6 1/2
Price, per set	14c	15c	17c	22c	27c	30c	35c

Size	0	1	2	3	4	5	6
Wt., per set, about, lbs.	2 1/4	2 1/4	3 1/4	4 1/4	5 1/4	6	6 1/2
Price, per set	14c	15c	17c	22c	27c	30c	35c

Size	0	1	2	3	4	5	6
Wt., per set, about, lbs.	2 1/4	2 1/4	3 1/4	4 1/4	5 1/4	6	6 1/2
Price, per set	14c	15c	17c	22c	27c	30c	35c

Size	0	1	2	3	4	5	6
Wt., per set, about, lbs.	2 1/4	2 1/4	3 1/4	4 1/4	5 1/4	6	6 1/2
Price, per set	14c	15c	17c	22c	27c	30c	35c

Size	0	1	2	3	4	5	6
Wt., per set, about, lbs.	2 1/4	2 1/4	3 1/4	4 1/4	5 1/4	6	6 1/2
Price, per set	14c	15c	17c	22c	27c	30c	35c

Size	0	1	2	3	4	5	6
Wt., per set, about, lbs.	2 1/4	2 1/4	3 1/4	4 1/4	5 1/4	6	6 1/2
Price, per set	14c	15c	17c	22c	27c	30c	35c

Size	0	1	2	3	4	5	6
Wt., per set, about, lbs.	2 1/4	2 1/4	3 1/4	4 1/4	5 1/4	6	6 1/2
Price, per set	14c	15c	17c	22c	27c	30c	35c

Size	0	1	2	3	4	5	6
Wt., per set, about, lbs.	2 1/4	2 1/4	3 1/4	4 1/4	5 1/4	6	6 1/2
Price, per set	14c	15c	17c	22c	27c	30c	35c

Size	0	1	2	3	4	5	6
Wt., per set, about, lbs.	2 1/4	2 1/4	3 1/4	4 1/4	5 1/4	6	6 1/2
Price, per set	14c	15c	17c	22c	27c	30c	35c

Size	0	1	2	3	4	5	6
Wt., per set, about, lbs.	2 1/4	2 1/4	3 1/4	4 1/4	5 1/4	6	6 1/2
Price, per set	14c	15c	17c	22c	27c	30c	35c

Size	0	1	2	3	4	5	6
Wt., per set, about, lbs.	2 1/4	2 1/4	3 1/4	4 1/4	5 1/4	6	6 1/2
Price, per set	14c	15c	17c	22c	27c	30c	35c

Size	0	1	2	3	4	5	6
Wt., per set, about, lbs.	2 1/4	2 1/4	3 1/4	4 1/4	5 1/4	6	6 1/2
Price, per set	14c	15c	17c	22c	27c	30c	35c

Size	0	1	2	3	4	5	6
Wt., per set, about, lbs.	2 1/4	2 1/4	3 1/4	4 1/4	5 1/4	6	6 1/2
Price, per set	14c	15c	17c	22c	27c	30c	35c

Size	0	1	2	3	4	5	6
Wt., per set, about, lbs.	2 1/4	2 1/4	3 1/4	4 1/4	5 1/4	6	6 1/2
Price, per set	14c	15c	17c	22c	27c	30c	35c

Size	0	1	2	3	4	5	6
Wt., per set, about, lbs.	2 1/4	2 1/4	3 1/4	4 1/4	5 1/4	6	6 1/2
Price, per set	14c	15c	17c	22c	27c	30c	35c

Size	0	1	2	3	4	5	6
Wt., per set, about, lbs.	2 1/4	2 1/4	3 1/4	4 1/4	5 1/4	6	6 1/2
Price, per set	14c	15c	17c	22c	27c	30c	35c

Size	0	1	2	3	4	5	6
Wt., per set, about, lbs.	2 1/4	2 1/4	3 1/4	4 1/4	5 1/4	6	6 1/2
Price, per set	14c	15c	17c	22c	27c	30c	35c

Size	0	1	2	3	4	5	6
Wt., per set, about, lbs.	2 1/4	2 1/4	3 1/4	4 1/4	5 1/4	6	6 1/2
Price, per set	14c	15c	17c	22c	27c	30c	35c

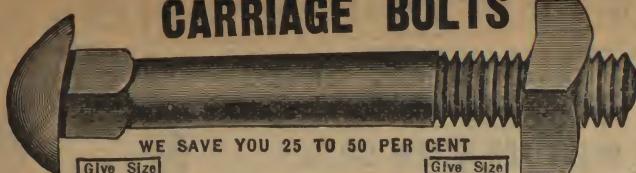
Size	0	1	2	3	4	5	6
Wt., per set, about, lbs.	2 1/4	2 1/4	3 1/4	4 1/4	5 1/4	6	6 1/2
Price, per set	14c	15c	17c	22c	27c	30c	35c

Size	0	1	2	3	4	5	6
Wt., per set, about, lbs.	2 1/4	2 1/4	3 1/4	4 1/4	5 1/4	6	6 1/2
Price, per set	14c	15c	17c	22c	27c	30c	35c

Size	0	1	2	3	4	5	6
Wt., per set, about, lbs.	2 1/4	2 1/4	3 1/4	4 1/4	5 1/4	6	6 1/2
Price, per set	14c	15c	17c	22c	27c	30c	35c

Size	0	1	2	3	4	5	6
Wt., per set, about, lbs.	2 1/4	2 1/4	3 1/4	4 1/4	5 1/4	6	6 1/2
Price, per set	14c	15c	17c</				

CARRIAGE BOLTS



WE SAVE YOU 25 TO 50 PER CENT

[Give Size]

Carriage Bolts, with oval heads and forged nuts; made of the best grade of mild steel, with clean, accurate threads and well formed head and nuts.

Notice—Ordinarily, prices on carriage and machine bolts are effective during the life of this Catalogue, but in the event of extraordinary market fluctuations, we reserve the right to revise our prices. Will always bill to you at the very lowest rates and save you money. (Give size.)

CARRIAGE BOLTS

83B4800—Diameter, $\frac{1}{4}$ inch. 4-inch bolt weighs approximately 6 lbs. per 100.

L'gth In.	Per 100 Bolts	Per Pkg. of 25	L'gth In.	Per 100 Bolts	Per Pkg. of 25
$\frac{1}{4}$	32c	9c	$\frac{1}{4}$	52c	15c
$\frac{1}{2}$	32c	9c	$\frac{1}{2}$	52c	15c
$\frac{3}{4}$	36c	10c	$\frac{3}{4}$	56c	16c
1	36c	10c	1	56c	16c
$\frac{5}{8}$	38c	11c	$\frac{5}{8}$	64c	18c
$\frac{7}{8}$	39c	12c	$\frac{7}{8}$	70c	20c
1	40c	12c	1	73c	20c
$\frac{9}{8}$	42c	13c	$\frac{9}{8}$	78c	22c
$\frac{11}{8}$	44c	14c	$\frac{11}{8}$	81c	23c
$\frac{13}{8}$	45c	14c	$\frac{13}{8}$	86c	24c
$\frac{15}{8}$	47c	15c	$\frac{15}{8}$	95c	25c
2	48c	15c	2	95c	25c
$\frac{3}{4}$	20c	4c	$\frac{3}{4}$	27c	8c
$\frac{5}{8}$	23c	4c	$\frac{5}{8}$	30c	8c

83B4802—Diameter, $\frac{1}{4}$ inch.

6-inch bolt weighs approximately 22 lbs. per 100.

L'gth In.	Per 100 Bolts	Per Pkg. of 25	L'gth In.	Per 100 Bolts	Per Pkg. of 25
$\frac{1}{4}$	45c	13c	$\frac{1}{4}$	\$0.68	20c
$\frac{1}{2}$	46c	13c	$\frac{1}{2}$	.72	21c
$\frac{3}{4}$	47c	13c	$\frac{3}{4}$	.76	22c
1	49c	13c	1	.80	23c
$\frac{5}{8}$	50c	15c	$\frac{5}{8}$	.80	23c
$\frac{7}{8}$	52c	15c	$\frac{7}{8}$	.85	24c
1	55c	15c	1	1.00	27c
$\frac{9}{8}$	56c	16c	$\frac{9}{8}$	1.05	28c
$\frac{11}{8}$	57c	16c	$\frac{11}{8}$	1.08	28c
$\frac{13}{8}$	60c	17c	$\frac{13}{8}$	1.10	29c
$\frac{15}{8}$	62c	17c	$\frac{15}{8}$	1.16	31c
$\frac{17}{8}$	64c	18c	$\frac{17}{8}$	1.24	33c
$\frac{19}{8}$	65c	18c	$\frac{19}{8}$	1.32	35c
2	67c	19c	2	1.42	40c

HANDY BOLT ASSORTMENT



100 STEEL CARRIAGE BOLTS
WITH NUTS

A BIG BARGAIN FOR

47c

83B4822—A splendid, very useful assortment of 100 high grade Carriage Bolts. Diameters are $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$ in. Lengths range from $\frac{1}{2}$ to 4 in. Bolts are high grade, with clean, accurate threads, and well formed heads. A fine assortment of sizes that are in constant demand for use about the farm and home. Will be found a great convenience. A big value at our very low price. Weight, about 8 lbs. Price... 47c

LIGHT TURN BUCKLE



83B4835—Wrought steel Hook and Eye, diameter, $\frac{1}{4}$ in., with wrought lock nuts. Cast iron swivel 1 $\frac{1}{4}$ x 3 $\frac{3}{4}$. Length open, 9 $\frac{1}{2}$ in. Closed, 7 $\frac{1}{2}$ in. Plain finish. Wt., $\frac{1}{2}$ lb. Each... \$0.10 Dozen... 1.10

HEAVY TURN BUCKLES

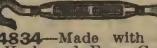


83B4832—Open wrought steel Hook and Eye, diameter, $\frac{1}{4}$ in., with short right and left hand stub ends, threaded to long rods. Give size

Diam. Rod Weight Lbs. Price

Diam. Rod	Weight Lbs.	Price
$\frac{3}{16}$	1	20c
$\frac{1}{2}$	1 $\frac{1}{2}$	23c
$\frac{5}{8}$	2	26c
$\frac{3}{4}$	2 $\frac{1}{2}$	30c
$\frac{7}{8}$	3	32c
1	3 $\frac{1}{2}$	46c
$\frac{9}{8}$	4	48c
$\frac{11}{8}$	5	50c
$\frac{13}{8}$	6	53c
$\frac{15}{8}$	7	56c
$\frac{17}{8}$	8	60c
$\frac{19}{8}$	9	63c
$\frac{21}{8}$	10	66c
$\frac{23}{8}$	11	69c
$\frac{25}{8}$	12	72c

HOOK AND EYE TURNBUCKLES (Galvanized)



83B4834—Made with wrought steel Hook and Eye. Galvanized to prevent rust. Average weights, $\frac{1}{2}$ to 4 lbs. Give size.

Diam. Length Threaded Inches Per Dozen

Diam. Inches	Length Inches	Per Dozen
$\frac{1}{4}$	8 $\frac{1}{2}$	26c
$\frac{1}{2}$	9 $\frac{1}{2}$	30c
$\frac{3}{4}$	10 $\frac{1}{2}$	32c
1	12 $\frac{1}{2}$	46c
$\frac{5}{8}$	13 $\frac{1}{2}$	48c
$\frac{7}{8}$	14 $\frac{1}{2}$	60c
$\frac{9}{8}$	15 $\frac{1}{2}$	63c
$\frac{11}{8}$	16 $\frac{1}{2}$	66c
$\frac{13}{8}$	17 $\frac{1}{2}$	70c
$\frac{15}{8}$	18 $\frac{1}{2}$	72c
$\frac{17}{8}$	19 $\frac{1}{2}$	78c
$\frac{19}{8}$	20 $\frac{1}{2}$	84c

Stove Bolts

ROUND HEAD STOVE BOLTS



Weights, per 100, $\frac{1}{4}$ to 5 lbs.

83B4816—Round Head. Diameter, $\frac{3}{16}$ in. (Give size.)

83B4817—Round Head. Diameter, $\frac{1}{4}$ in. (Give size.)

83B4818—Round Head. Diameter, $\frac{5}{16}$ in. (Give size.)

83B4819—Round Head. Diameter, $\frac{3}{8}$ in. (Give size.)

83B4820—Round Head. Diameter, $\frac{7}{16}$ in. (Give size.)

83B4821—Round Head. Diameter, $\frac{1}{2}$ in. (Give size.)

83B4822—Round Head. Diameter, $\frac{9}{16}$ in. (Give size.)

83B4823—Round Head. Diameter, $\frac{5}{8}$ in. (Give size.)

83B4824—Round Head. Diameter, $\frac{11}{16}$ in. (Give size.)

83B4825—Round Head. Diameter, $\frac{13}{16}$ in. (Give size.)

83B4826—Round Head. Diameter, $\frac{15}{16}$ in. (Give size.)

83B4827—Round Head. Diameter, $\frac{17}{16}$ in. (Give size.)

83B4828—Round Head. Diameter, $\frac{19}{16}$ in. (Give size.)

83B4829—Round Head. Diameter, $\frac{21}{16}$ in. (Give size.)

83B4830—Round Head. Diameter, $\frac{23}{16}$ in. (Give size.)

83B4831—Round Head. Diameter, $\frac{25}{16}$ in. (Give size.)

83B4832—Round Head. Diameter, $\frac{27}{16}$ in. (Give size.)

83B4833—Round Head. Diameter, $\frac{29}{16}$ in. (Give size.)

83B4834—Round Head. Diameter, $\frac{31}{16}$ in. (Give size.)

83B4835—Round Head. Diameter, $\frac{33}{16}$ in. (Give size.)

83B4836—Round Head. Diameter, $\frac{35}{16}$ in. (Give size.)

83B4837—Round Head. Diameter, $\frac{37}{16}$ in. (Give size.)

83B4838—Round Head. Diameter, $\frac{39}{16}$ in. (Give size.)

83B4839—Round Head. Diameter, $\frac{41}{16}$ in. (Give size.)

83B4840—Round Head. Diameter, $\frac{43}{16}$ in. (Give size.)

83B4841—Round Head. Diameter, $\frac{45}{16}$ in. (Give size.)

83B4842—Round Head. Diameter, $\frac{47}{16}$ in. (Give size.)

83B4843—Round Head. Diameter, $\frac{49}{16}$ in. (Give size.)

83B4844—Round Head. Diameter, $\frac{51}{16}$ in. (Give size.)

83B4845—Round Head. Diameter, $\frac{53}{16}$ in. (Give size.)

83B4846—Round Head. Diameter, $\frac{55}{16}$ in. (Give size.)

83B4847—Round Head. Diameter, $\frac{57}{16}$ in. (Give size.)

83B4848—Round Head. Diameter, $\frac{59}{16}$ in. (Give size.)

83B4849—Round Head. Diameter, $\frac{61}{16}$ in. (Give size.)

83B4850—Round Head. Diameter, $\frac{63}{16}$ in. (Give size.)

83B4851—Round Head. Diameter, $\frac{65}{16}$ in. (Give size.)

83B4852—Round Head. Diameter, $\frac{67}{16}$ in. (Give size.)

83B4853—Round Head. Diameter, $\frac{69}{16}$ in. (Give size.)

83B4854—Round Head. Diameter, $\frac{71}{16}$ in. (Give size.)

83B4855—Round Head. Diameter, $\frac{73}{16}$ in. (Give size.)

83B4856—Round Head. Diameter, $\frac{75}{16}$ in. (Give size.)

83B4857—Round Head. Diameter, $\frac{77}{16}$ in. (Give size.)

83B4858—Round Head. Diameter, $\frac{79}{16}$ in. (Give size.)

83B4859—Round Head. Diameter, $\frac{81}{16}$ in. (Give size.)

83B4860—Round Head. Diameter, $\frac{83}{16}$ in. (Give size.)

83B4861—Round Head. Diameter, $\frac{85}{16}$ in. (Give size.)

83B4862—Round Head. Diameter, $\frac{87}{16}$ in. (Give size.)

83B4863—Round Head. Diameter, $\frac{89}{16}$ in. (Give size.)

83B4864—Round Head. Diameter, $\frac{91}{16}$ in. (Give size.)

83B4865—Round Head. Diameter, $\frac{93}{16}$ in. (Give size.)

83B4866—Round Head. Diameter, $\frac{95}{16}$ in. (Give size.)

83B4867—Round Head. Diameter, $\frac{97}{16}$ in. (Give size.)

83B4868—Round Head. Diameter, $\frac{99}{16}$ in. (Give size.)

83B4869—Round Head. Diameter, $\frac{101}{16}$ in. (Give size.)

83B4870—Round Head. Diameter, $\frac{103}{16}$ in. (Give size.)

83B4871—Round Head. Diameter, $\frac{105}{16}$ in. (Give size.)

83B4872—Round Head. Diameter, $\frac{107}{16}$ in. (Give size.)

STANDARD SCREW PLATES FOR MECHANICS AND MOTORISTS

FULL MOUNTED EASY PLATES



The Full Mounted Easy Screw Plates have a separate stock with each die, and we include with each set a patent adjustable tap wrench. Dies and taps of special tool steel.

83B4930—Full Mounted Easy Screw Plate, No. 51. Cutting 5 sizes as follows: $\frac{1}{4}$ -20, $\frac{5}{16}$ -18, $\frac{3}{16}$ -16, $\frac{7}{16}$ -14, $\frac{1}{2}$ -12 threads. Complete in handsome wood box with taper taps. The dies and taps cut $\frac{1}{2}$ in. over size. Standard V thread. Weight, about 23 pounds. Per set \$6.95

83B4931—Full Mounted Easy Screw Plate, No. 55. Cutting 7 sizes as follows: $\frac{1}{4}$ -20, $\frac{5}{16}$ -18, $\frac{3}{16}$ -16, $\frac{7}{16}$ -14, $\frac{1}{2}$ -12, $\frac{5}{8}$ -11, $\frac{3}{4}$ -10 threads. Complete in handsome wood box with taper taps. The dies and taps cut $\frac{1}{2}$ in. over size. Standard V thread. Weight, about 28 $\frac{1}{2}$ pounds. Per set \$9.95

83B4932—Full Mounted Easy Screw Plate, No. 57. Cutting 9 sizes as follows: $\frac{1}{4}$ -20, $\frac{5}{16}$ -18, $\frac{3}{16}$ -16, $\frac{7}{16}$ -14, $\frac{1}{2}$ -12, $\frac{5}{8}$ -11, $\frac{3}{4}$ -10, $\frac{9}{16}$ -9, $\frac{1}{8}$ threads. Complete in handsome wood box with taper taps. The dies and taps cut $\frac{1}{2}$ in. over size. Standard V thread. Weight, about 39 $\frac{1}{2}$ lbs. Per set \$16.25

RUSSELL SCREW PLATES



Two-piece dies, held rigidly in a solid collet. Adjustable by means of two set screws. Perfect threads with one cut. Zero marks on top of die and collet for perfect adjustment of each half. With taper taps, dies and $\frac{1}{2}$ in. collets. V-threads, $\frac{1}{2}$ in. oversize. With die stock, adjustable tap wrench, and bit brace holder. Dies and taps of special tool steel. In handsome wood case.

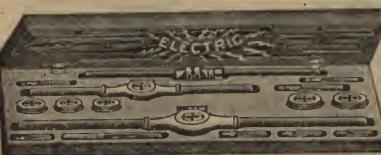
83B4916—Cutting 5 sizes: $\frac{1}{4}$ -20, $\frac{5}{16}$ -18, $\frac{3}{16}$ -16, $\frac{7}{16}$ -14, $\frac{1}{2}$ -12 threads. Wt. about 12 lbs. Per set \$7.40

83B4917—Cutting 5 sizes: $\frac{1}{4}$ -20, $\frac{5}{16}$ -16, $\frac{3}{16}$ -11, $\frac{7}{16}$ -10 threads. Wt. about 14 lbs. Per set \$8.35

83B4918—Cutting 7 sizes: $\frac{1}{4}$ -20, $\frac{5}{16}$ -18, $\frac{3}{16}$ -16, $\frac{7}{16}$ -14, $\frac{1}{2}$ -12, $\frac{5}{8}$ -11, $\frac{3}{4}$ -10 threads. Wt. about 16 lbs. Per set \$9.85

83B4919—Cutting 9 sizes: $\frac{1}{4}$ -20, $\frac{5}{16}$ -18, $\frac{3}{16}$ -16, $\frac{7}{16}$ -14, $\frac{1}{2}$ -12, $\frac{5}{8}$ -11, $\frac{3}{4}$ -10, $\frac{9}{16}$ -9, $\frac{1}{8}$ threads. Wt. about 20 lbs. Per set \$15.70

ELECTRIC SCREW PLATES



83B4940—Electric Screw Plate, No. 2. Cutting 5 sizes as follows: $\frac{1}{4}$ -20, $\frac{5}{16}$ -16, $\frac{3}{16}$ -12, $\frac{7}{16}$ -11, $\frac{1}{2}$ -10 threads. Has two stocks, lengths, $1\frac{1}{4}$ in. and $2\frac{1}{2}$ in. Complete in handsome hardwood box, with taper taps. The dies and taps of special tool steel cut $\frac{1}{2}$ in. over size. Standard V thread. Wt. about 21 $\frac{1}{4}$ lbs. Per set \$8.95



83B4942—Electric Screw Plate, No. 5. Cutting 7 sizes as follows: $\frac{1}{4}$ -20, $\frac{5}{16}$ -18, $\frac{3}{16}$ -16, $\frac{7}{16}$ -14, $\frac{1}{2}$ -12, $\frac{5}{8}$ -11, $\frac{3}{4}$ -10 threads. Has two stocks, lengths, $1\frac{1}{4}$ in. and $2\frac{1}{2}$ in. Complete in handsome hardwood box, with taper taps. The dies and taps cut $\frac{1}{2}$ in. over size. Standard V thread. Weight, 24 $\frac{1}{2}$ lbs. Per set \$10.60

83B4944—Electric Screw Plate, No. 9. Cutting 10 sizes, as follows: $\frac{1}{4}$ -20, $\frac{5}{16}$ -18, $\frac{3}{16}$ -16, $\frac{7}{16}$ -14, $\frac{1}{2}$ -12, $\frac{5}{8}$ -11, $\frac{3}{4}$ -10, $\frac{9}{16}$ -9, $\frac{1}{8}$ threads. Has two stocks, lengths, 19 in. and 30 in. Complete in handsome hardwood box, with taper taps. The dies and taps cut $\frac{1}{2}$ in. over size. Standard V thread. Weight, about 30 lbs. Per set \$18.70

GREEN RIVER SCREW PLATES



Green River Screw Plates have round adjustable dies, with case hardened guides, to which the die is fastened by means of two adjusting screws. Are very popular with many mechanics.

83B4948—Green River Screw Plate, No. 150. Cutting 5 sizes as follows: $\frac{1}{4}$ -40, $\frac{5}{16}$ -32, $\frac{3}{16}$ -24, $\frac{7}{16}$ -24, $\frac{1}{2}$ -20 threads. Complete in handsome wood box with machine taps and a tap wrench. Cutting exact sizes. Standard V threads. Dies and taps of special tool steel. Weight, about 2 $\frac{1}{2}$ lbs. Per set \$3.95

83B4950—Green River Screw Plate, No. 1102. Cutting 6 sizes as follows: $\frac{1}{4}$ -24, $\frac{5}{16}$ -20, $\frac{3}{16}$ -18, $\frac{7}{16}$ -16, $\frac{1}{2}$ -14, $\frac{5}{8}$ -12 threads. Has one stock length, $1\frac{1}{4}$ in., and one adjustable tap wrench. Complete in handsome box with taper taps. The dies and taps cut $\frac{1}{2}$ in. over size. Standard V thread. Weight, about 12 $\frac{1}{2}$ lbs. Per set \$8.15

83B4951—Green River Screw Plate, No. 1104. Cutting 7 sizes as follows: $\frac{1}{4}$ -20, $\frac{5}{16}$ -18, $\frac{3}{16}$ -16, $\frac{7}{16}$ -14, $\frac{1}{2}$ -12, $\frac{5}{8}$ -11, $\frac{3}{4}$ -10 threads. Has one stock length, 22 in., and one adjustable tap wrench. Complete in handsome box with taper taps. The dies and taps cut $\frac{1}{2}$ in. over size. Standard V thread. Weight, about 16 lbs. Per set \$9.50

EASY SCREW PLATES \$6.50



PERFECT SCREWS AT A SINGLE CUT

83B4921—Easy Screw Plate, No. 1B. Cutting 5 sizes as follows: $\frac{1}{4}$ -20, $\frac{5}{16}$ -18, $\frac{3}{16}$ -16, $\frac{7}{16}$ -14, $\frac{1}{2}$ -12 threads. Length of stock, 16 in. Complete in handsome wood box, with taper taps. The dies and taps cut $\frac{1}{2}$ in. over size. Standard V thread. Weight, about 7 $\frac{1}{2}$ lbs. Per set \$6.50

83B4920—Easy Screw Plate, No. 2B. Cutting 5 sizes as follows: $\frac{1}{4}$ -20, $\frac{5}{16}$ -18, $\frac{3}{16}$ -16, $\frac{7}{16}$ -14, $\frac{1}{2}$ -12, $\frac{5}{8}$ -11, $\frac{3}{4}$ -10 threads. Has two stocks, one $1\frac{1}{2}$ in. and one 23 in. long. Complete in handsome wood box, with taper taps. The dies and taps cut $\frac{1}{2}$ in. over size. Standard V thread. Weight, about 14 lbs. Per set \$7.20

83B4922—Easy Screw Plate, No. 5B. Cutting 7 sizes as follows: $\frac{1}{4}$ -20, $\frac{5}{16}$ -18, $\frac{3}{16}$ -16, $\frac{7}{16}$ -14, $\frac{1}{2}$ -12, $\frac{5}{8}$ -11, $\frac{3}{4}$ -10 threads. With two stocks, sizes 16 and 23 in., and taper taps. Complete in hardwood case. The dies and taps cut exact size for finished work. U. S. Standard thread. Weight, about 16 lbs. Per set \$8.65

83B4923—Easy Screw Plate, No. 5B. Exact. Cutting 7 sizes as follows: $\frac{1}{4}$ -20, $\frac{5}{16}$ -18, $\frac{3}{16}$ -16, $\frac{7}{16}$ -14, $\frac{1}{2}$ -12, $\frac{5}{8}$ -11, $\frac{3}{4}$ -10 threads. With two stocks, one 16 in. and one 29 in. long. Complete in handsome wood box, with taper taps. The dies and taps cut $\frac{1}{2}$ in. over size. Standard V thread. Weight, about 19 lbs. Per set \$13.95

83B4924—Easy Screw Plate, No. 9B. Cutting 10 sizes as follows: $\frac{1}{4}$ -20, $\frac{5}{16}$ -18, $\frac{3}{16}$ -16, $\frac{7}{16}$ -14, $\frac{1}{2}$ -12, $\frac{5}{8}$ -11, $\frac{3}{4}$ -10, $\frac{9}{16}$ -9, $\frac{1}{8}$ threads. Has two stocks, one $1\frac{1}{4}$ in. and one 29 in. in length. Complete in handsome wood box with taper taps. The dies and taps cut $\frac{1}{2}$ in. over size. Standard V thread. Weight, about 20 lbs. Per set \$15.65

Compact, neat and strong

Make a perfect screw with a single cut. The dies are adjustable by means of taper head screw with a taper nut, making them perfectly rigid and solid. Material and workmanship are of the very best. Dies and taps of special tool steel. We include with each set a Champion Adjustable Tap Wrench which has a square socket to fit the shank of each size tap in the set. Holds the tap firmly and always in the center. It is light, strong and well made.

These plates are made especially for and adapted to bicycle work. The dies are adjustable for making tight or loose fits. Dies and taps of special tool steel. Complete with packing taps, packed in a neat hardwood box.

83B4981—Set No. 1. Stock, length, 5 in. dies, $\frac{5}{16}$ of an inch in diameter, 6 dies and 6 taps, cutting $\frac{3}{32}$ - $\frac{5}{16}$, $\frac{1}{4}$ - $\frac{1}{2}$, No. 3-48. Weight, about 14 oz. Price, \$2.90

83B4982—Set No. 2. Stock, length, 5 in.; dies $\frac{5}{16}$ of an inch in diameter, 6 dies and 6 taps, cutting $\frac{3}{32}$ - $\frac{5}{16}$, $\frac{1}{4}$ - $\frac{1}{2}$, No. 1-64. Weight, about 15 oz. Each \$2.90

83B4983—Set No. 3. Stock, length, 5 in.; dies $\frac{5}{16}$ of an inch in diameter, 14 dies and 14 taps, cutting $\frac{3}{32}$ - $\frac{5}{16}$, $\frac{1}{4}$ - $\frac{1}{2}$, $\frac{5}{16}$ - $\frac{1}{2}$, $\frac{1}{2}$ - $\frac{1}{2}$, No. 4-42. Weight, about 1 $\frac{1}{2}$ pounds. Each \$5.90

CARD'S GUNSMITHS' SCREW PLATES



The dies to this plate are held in place by a thumb screw on one end. Full polished stock complete with dies and taps packed in a neat hardwood box. Dies and taps of special tool steel.

83B4986—Set No. 00B. Length, 6 in. Has 4 plug-taps, and 4 pairs of dies, cutting machine screw sizes as follows:

Screw No. 4 6 8 10
Diam. Decimal in. 110 136 163 189
Thread 48 40 36 32
Weight, per set, about 11 oz. Per set \$1.95

83B4987—Set No. 00C. Length, 6 in. Has 4 plug-taps and 4 pairs of dies, cutting machine screw sizes as follows:

Screw No. 4 6 8 10
Diam. Decimal in. 110 136 163 189
Thread 40 36 34 30
Weight, per set, about $\frac{3}{4}$ lb. Per set \$2.00

83B4988—Set No. 0B. Length, 7 $\frac{1}{2}$ in. Has 4 plug taps and 4 pairs of dies, cutting machine screw sizes as follows:

Screw No. 8 10 12 14
Diam. Decimal in. 136 189 215 242
Thread 36 34 30 28
Weight, per set, about 11 oz. Per set \$2.60

DIAMOND SCREW PLATES

Diamond Screw Plates with round dies, packed complete in hardwood box. Dies and taps of special tool steel.

83B4990—Diamond Screw Plate, Set A. Stock, length, 5 $\frac{1}{2}$ in. Tap wrench, length, 5 in. 7 dies and 7 plug taps. Weight, about 7 $\frac{1}{2}$ pounds. Per set \$13.25

83B4971—Style B. Cutting $\frac{1}{4}$ -20, $\frac{5}{16}$ -18, $\frac{3}{16}$ -16, $\frac{7}{16}$ -14, $\frac{1}{2}$ -12, $\frac{5}{8}$ -11, $\frac{3}{4}$ -10 threads. With 9 sets of dies and 9 plug taps. Weight, about 14 lbs. Per set \$20.00

83B4972—Style B2. Cutting 5 sizes as follows: $\frac{1}{4}$ -13, $\frac{5}{16}$ -11, $\frac{3}{16}$ -10, $\frac{7}{16}$ -9, $\frac{1}{2}$ -8 threads, with 5 dies and plug taps. Weight, about 11 $\frac{1}{2}$ pounds. Per set \$14.65

83B4973—Style C. Cutting $\frac{1}{4}$ -20, $\frac{5}{16}$ -18, $\frac{3}{16}$ -16, $\frac{7}{16}$ -14, $\frac{1}{2}$ -12, $\frac{5}{8}$ -11, $\frac{3}{4}$ -10 threads. With 7 sets of dies and 7 plug taps. Weight, about 7 $\frac{1}{2}$ pounds. Per set \$13.25

83B4991—Cards' Diamond Screw Plate, Set E. Stock, length, 5 inches. Tap wrench, length, 5 in. 10 dies and 10 taps, cutting machine screw sizes as follows:

Screw No. 2 3 4 5 6
Diam. Decimal in. 084 097 110 125 136
Thread 56 58 60 62 63
Screw No. 8 10 12 14
Diam. Decimal in. 163 189 209 224
Thread 32 32 24 24
Weight, about 1 $\frac{1}{2}$ lbs. Per set \$4.80

83B4992—Cards' Diamond Screw Plate, Set Q. Stock, length, 7 inches. Tap wrench, length, 7 $\frac{1}{2}$ in. 5 dies and 5 taps, cutting as follows: $\frac{1}{4}$ -10, $\frac{5}{16}$ -8, $\frac{3}{16}$ -7, $\frac{7}{16}$ -6, $\frac{1}{2}$ -5 threads. Weight, about 1 $\frac{1}{2}$ lbs. Per set \$3.45

83B4993—Cards' Diamond Screw Plate, Set R. Stock, length, 7 in. Tap wrench, length, 7 $\frac{1}{2}$ in. 6 dies and 6 taps, cutting as follows: $\frac{1}{4}$ -10, $\frac{5}{16}$ -8, $\frac{3}{16}$ -7, $\frac{7}{16}$ -6, $\frac{1}{2}$ -5 threads. Weight, about 1 $\frac{1}{2}$ lbs. Per set \$3.45

83B4994—Cards' Diamond Screw Plate, Set S. Stock, length, 7 in. Tap wrench, length, 7 $\frac{1}{2}$ in. 5 dies and 5 taps, cutting as follows: $\frac{1}{4}$ -10, $\frac{5}{16}$ -8, $\frac{3}{16}$ -7, $\frac{7}{16}$ -6, $\frac{1}{2}$ -5 threads. Weight, about 1 $\frac{1}{2}$ lbs. Per set \$3.45

83B4995—Cards' Diamond Screw Plate, Set T. Stock, length, 7 in. Tap wrench, length, 7 $\frac{1}{2}$ in. 5 dies and 5 taps, cutting as follows: $\frac{1}{4}$ -10, $\frac{5}{16}$ -8, $\frac{3}{16}$ -7, $\frac{7}{16}$ -6, $\frac{1}{2}$ -5 threads. Weight, about 1 $\frac{1}{2}$ lbs. Per set \$3.45

83B4996—Cards' Diamond Screw Plate, Set U. Stock, length, 7 in. Tap wrench, length, 7 $\frac{1}{2}$ in. 5 dies and 5 taps, cutting as follows: $\frac{1}{4}$ -10, $\frac{5}{16}$ -8, $\frac{3}{16}$ -7, $\frac{7}{16}$ -6, $\frac{1}{2}$ -5 threads. Weight, about 1 $\frac{1}{2}$ lbs. Per set \$3.45

83B4997—Cards' Diamond Screw Plate, Set V. Stock, length, 7 in. Tap wrench, length, 7 $\frac{1}{2}$ in. 5 dies and 5 taps, cutting as follows: $\frac{1}{4}$ -10, $\frac{5}{16}$ -8, $\frac{3}{16}$ -7, $\frac{7}{16}$ -6, $\frac{1}{2}$ -5 threads. Weight, about 1 $\frac{1}{2}$ lbs. Per set \$3.45

83B4998—Cards' Diamond Screw Plate, Set W. Stock, length, 7 in. Tap wrench, length, 7 $\frac{1}{2}$ in. 5 dies and 5 taps, cutting as follows: $\frac{1}{4}$ -10, $\frac{5}{16}$ -8, $\frac{3}{16}$ -7, $\frac{7}{16}$ -6, $\frac{1}{2}$ -5 threads. Weight, about 1 $\frac{1}{2}$ lbs. Per set \$3.45

83B4999—Cards' Diamond Screw Plate, Set X. Stock, length, 7 in. Tap wrench, length, 7 $\frac{1}{2}$ in. 5 dies and 5 taps, cutting as follows: $\frac{1}{4}$ -10, $\frac{5}{16}$ -8, $\frac{3}{16}$ -7, $\frac{7}{16}$ -6, $\frac{1}{2}$ -5 threads. Weight, about 1 $\frac{1}{2}$ lbs. Per set \$3.45

83B5000—Diamond Automobile Screw Plates A. L. A. M. STANDARD

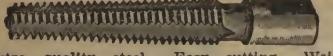
For automobile repair work. Cutting 5 sizes as follows: $\frac{1}{4}$ -28, $\frac{5}{16}$ -24, $\frac{3}{16}$ -20, $\frac{7}{16}$ -18, $\frac{1}{2}$ -16, $\frac{5}{8}$ -12 threads. Has one stock, length, 13 $\frac{1}{2}$ in. and 5 taps. Packed complete in a hardwood case. Dies and taps are of special tool steel. Weight, about 4 lbs. Per set \$5.50

83B5001—Diamond Screw Plate, No. 2. Cutting 11 sizes as follows: $\frac{1}{4}$ -28, $\frac{5}{16}$ -24, $\frac{3}{16}$ -20, $\frac{7}{16}$ -18, $\frac{1}{2}$ -16, $\frac{5}{8}$ -12, $\frac{3}{4}$ -11, $\frac{1}{2}$ -10, $\frac{5}{16}$ -9, $\frac{3}{8}$ -8, $\frac{7}{16}$ -7, $\frac{1}{4}$ -7 threads. Has two stocks, lengths, 13 $\frac{1}{2}$ in. and 23 $\frac{1}{2}$ in. and 11 taps. Packed complete in a hardwood case. Weight, about 21 $\frac{1}{2}$ lbs. Per set \$17.95

83B5002—Diamond Screw Plate, No. 5. Cutting 7 sizes as follows: $\frac{1}{4}$ -28, $\frac{5}{16}$ -24, $\frac{3}{16}$ -20, $\frac{7}{16}$ -18, $\frac{1}{2}$ -16, $\frac{5}{8}$ -12, $\frac{3}{4}$ -11, $\frac{1}{2}$ -10, $\frac{5}{16}$ -9, $\frac{3}{8}$ -8, $\frac{7}{16}$ -7, $\frac{1}{4}$ -7 threads. Has one stock

STANDARD THREAD CUTTING TOOLS PRICED LOW

BLACKSMITH'S TAPER TAPS



Extra quality steel. Easy cutting. Weighs $\frac{1}{2}$ to 10 oz. Always state number of threads to inch.

83B5060—Right hand threads only.

Size, in.	Threads to Inch	Each
$\frac{1}{16}$	30, 32	110
$\frac{3}{16}$	24, 26, 28	120
$\frac{1}{4}$	16, 18, 20, 22, 24, 26	120
$\frac{5}{16}$	14, 16, 18, 20, 22	120
$\frac{3}{8}$	12, 14, 16, 18, 20	130
$\frac{7}{16}$	10, 12, 14, 16, 18	150
$\frac{1}{2}$	10, 12, 14, 16	150
$\frac{9}{16}$	10, 12, 14, 16	190
$\frac{5}{8}$	10, 12, 14, 16	190
$\frac{7}{8}$	8, 9, 10, 11, 12, 14	250
$\frac{1}{2}$	8, 9, 10, 12	340
$\frac{1}{4}$	7, 8, 9, 10	480

MACHINISTS' HAND TAPS

83B5061—Taper

83B5062—Plug

83B5063—Bottoming

These taps are all made exact sizes, with standard V-thread, right hand. The very best grade of steel used, and the greatest care taken with their temper. All of our taps are Patent Relieved to facilitate their cutting. Weights range from about $\frac{1}{2}$ to 10 oz.

Always state style wanted when ordering. (Right hand threads only.)

Inch Size	Threads to the In.	Each
$\frac{3}{16}$	30, 32, 36	130
$\frac{1}{4}$	20, 24, 28	180
$\frac{5}{16}$	18, 20, 24, 28	200
$\frac{3}{8}$	16, 18, 20, 24	220
$\frac{7}{16}$	12, 14, 16, 20, 24	260
$\frac{1}{2}$	10, 12, 14, 16, 20, 24	330
$\frac{9}{16}$	10, 12, 20	430
$\frac{5}{8}$	9, 10, 12	580
$\frac{7}{8}$	8, 12	720

STOVE BOLT TAPS

83B5065—Right Hand Only.

Finest tool steel, correctly tempered. Regular V-threads. Wts. $\frac{1}{2}$ to 2 oz.

Size in. $\frac{3}{16}$ $\frac{1}{4}$ $\frac{5}{16}$ $\frac{3}{8}$ $\frac{1}{2}$ $\frac{5}{8}$ $\frac{7}{16}$ $\frac{1}{4}$ $\frac{9}{16}$ $\frac{11}{16}$ $\frac{1}{2}$ $\frac{13}{16}$ $\frac{15}{16}$ $\frac{17}{16}$ $\frac{19}{16}$ $\frac{21}{16}$ $\frac{23}{16}$ $\frac{25}{16}$ $\frac{27}{16}$ $\frac{29}{16}$ $\frac{31}{16}$ $\frac{33}{16}$ $\frac{35}{16}$ $\frac{37}{16}$ $\frac{39}{16}$ $\frac{41}{16}$ $\frac{43}{16}$ $\frac{45}{16}$ $\frac{47}{16}$ $\frac{49}{16}$ $\frac{51}{16}$ $\frac{53}{16}$ $\frac{55}{16}$ $\frac{57}{16}$ $\frac{59}{16}$ $\frac{61}{16}$ $\frac{63}{16}$ $\frac{65}{16}$ $\frac{67}{16}$ $\frac{69}{16}$ $\frac{71}{16}$ $\frac{73}{16}$ $\frac{75}{16}$ $\frac{77}{16}$ $\frac{79}{16}$ $\frac{81}{16}$ $\frac{83}{16}$ $\frac{85}{16}$ $\frac{87}{16}$ $\frac{89}{16}$ $\frac{91}{16}$ $\frac{93}{16}$ $\frac{95}{16}$ $\frac{97}{16}$ $\frac{99}{16}$ $\frac{101}{16}$ $\frac{103}{16}$ $\frac{105}{16}$ $\frac{107}{16}$ $\frac{109}{16}$ $\frac{111}{16}$ $\frac{113}{16}$ $\frac{115}{16}$ $\frac{117}{16}$ $\frac{119}{16}$ $\frac{121}{16}$ $\frac{123}{16}$ $\frac{125}{16}$ $\frac{127}{16}$ $\frac{129}{16}$ $\frac{131}{16}$ $\frac{133}{16}$ $\frac{135}{16}$ $\frac{137}{16}$ $\frac{139}{16}$ $\frac{141}{16}$ $\frac{143}{16}$ $\frac{145}{16}$ $\frac{147}{16}$ $\frac{149}{16}$ $\frac{151}{16}$ $\frac{153}{16}$ $\frac{155}{16}$ $\frac{157}{16}$ $\frac{159}{16}$ $\frac{161}{16}$ $\frac{163}{16}$ $\frac{165}{16}$ $\frac{167}{16}$ $\frac{169}{16}$ $\frac{171}{16}$ $\frac{173}{16}$ $\frac{175}{16}$ $\frac{177}{16}$ $\frac{179}{16}$ $\frac{181}{16}$ $\frac{183}{16}$ $\frac{185}{16}$ $\frac{187}{16}$ $\frac{189}{16}$ $\frac{191}{16}$ $\frac{193}{16}$ $\frac{195}{16}$ $\frac{197}{16}$ $\frac{199}{16}$ $\frac{201}{16}$ $\frac{203}{16}$ $\frac{205}{16}$ $\frac{207}{16}$ $\frac{209}{16}$ $\frac{211}{16}$ $\frac{213}{16}$ $\frac{215}{16}$ $\frac{217}{16}$ $\frac{219}{16}$ $\frac{221}{16}$ $\frac{223}{16}$ $\frac{225}{16}$ $\frac{227}{16}$ $\frac{229}{16}$ $\frac{231}{16}$ $\frac{233}{16}$ $\frac{235}{16}$ $\frac{237}{16}$ $\frac{239}{16}$ $\frac{241}{16}$ $\frac{243}{16}$ $\frac{245}{16}$ $\frac{247}{16}$ $\frac{249}{16}$ $\frac{251}{16}$ $\frac{253}{16}$ $\frac{255}{16}$ $\frac{257}{16}$ $\frac{259}{16}$ $\frac{261}{16}$ $\frac{263}{16}$ $\frac{265}{16}$ $\frac{267}{16}$ $\frac{269}{16}$ $\frac{271}{16}$ $\frac{273}{16}$ $\frac{275}{16}$ $\frac{277}{16}$ $\frac{279}{16}$ $\frac{281}{16}$ $\frac{283}{16}$ $\frac{285}{16}$ $\frac{287}{16}$ $\frac{289}{16}$ $\frac{291}{16}$ $\frac{293}{16}$ $\frac{295}{16}$ $\frac{297}{16}$ $\frac{299}{16}$ $\frac{301}{16}$ $\frac{303}{16}$ $\frac{305}{16}$ $\frac{307}{16}$ $\frac{309}{16}$ $\frac{311}{16}$ $\frac{313}{16}$ $\frac{315}{16}$ $\frac{317}{16}$ $\frac{319}{16}$ $\frac{321}{16}$ $\frac{323}{16}$ $\frac{325}{16}$ $\frac{327}{16}$ $\frac{329}{16}$ $\frac{331}{16}$ $\frac{333}{16}$ $\frac{335}{16}$ $\frac{337}{16}$ $\frac{339}{16}$ $\frac{341}{16}$ $\frac{343}{16}$ $\frac{345}{16}$ $\frac{347}{16}$ $\frac{349}{16}$ $\frac{351}{16}$ $\frac{353}{16}$ $\frac{355}{16}$ $\frac{357}{16}$ $\frac{359}{16}$ $\frac{361}{16}$ $\frac{363}{16}$ $\frac{365}{16}$ $\frac{367}{16}$ $\frac{369}{16}$ $\frac{371}{16}$ $\frac{373}{16}$ $\frac{375}{16}$ $\frac{377}{16}$ $\frac{379}{16}$ $\frac{381}{16}$ $\frac{383}{16}$ $\frac{385}{16}$ $\frac{387}{16}$ $\frac{389}{16}$ $\frac{391}{16}$ $\frac{393}{16}$ $\frac{395}{16}$ $\frac{397}{16}$ $\frac{399}{16}$ $\frac{401}{16}$ $\frac{403}{16}$ $\frac{405}{16}$ $\frac{407}{16}$ $\frac{409}{16}$ $\frac{411}{16}$ $\frac{413}{16}$ $\frac{415}{16}$ $\frac{417}{16}$ $\frac{419}{16}$ $\frac{421}{16}$ $\frac{423}{16}$ $\frac{425}{16}$ $\frac{427}{16}$ $\frac{429}{16}$ $\frac{431}{16}$ $\frac{433}{16}$ $\frac{435}{16}$ $\frac{437}{16}$ $\frac{439}{16}$ $\frac{441}{16}$ $\frac{443}{16}$ $\frac{445}{16}$ $\frac{447}{16}$ $\frac{449}{16}$ $\frac{451}{16}$ $\frac{453}{16}$ $\frac{455}{16}$ $\frac{457}{16}$ $\frac{459}{16}$ $\frac{461}{16}$ $\frac{463}{16}$ $\frac{465}{16}$ $\frac{467}{16}$ $\frac{469}{16}$ $\frac{471}{16}$ $\frac{473}{16}$ $\frac{475}{16}$ $\frac{477}{16}$ $\frac{479}{16}$ $\frac{481}{16}$ $\frac{483}{16}$ $\frac{485}{16}$ $\frac{487}{16}$ $\frac{489}{16}$ $\frac{491}{16}$ $\frac{493}{16}$ $\frac{495}{16}$ $\frac{497}{16}$ $\frac{499}{16}$ $\frac{501}{16}$ $\frac{503}{16}$ $\frac{505}{16}$ $\frac{507}{16}$ $\frac{509}{16}$ $\frac{511}{16}$ $\frac{513}{16}$ $\frac{515}{16}$ $\frac{517}{16}$ $\frac{519}{16}$ $\frac{521}{16}$ $\frac{523}{16}$ $\frac{525}{16}$ $\frac{527}{16}$ $\frac{529}{16}$ $\frac{531}{16}$ $\frac{533}{16}$ $\frac{535}{16}$ $\frac{537}{16}$ $\frac{539}{16}$ $\frac{541}{16}$ $\frac{543}{16}$ $\frac{545}{16}$ $\frac{547}{16}$ $\frac{549}{16}$ $\frac{551}{16}$ $\frac{553}{16}$ $\frac{555}{16}$ $\frac{557}{16}$ $\frac{559}{16}$ $\frac{561}{16}$ $\frac{563}{16}$ $\frac{565}{16}$ $\frac{567}{16}$ $\frac{569}{16}$ $\frac{571}{16}$ $\frac{573}{16}$ $\frac{575}{16}$ $\frac{577}{16}$ $\frac{579}{16}$ $\frac{581}{16}$ $\frac{583}{16}$ $\frac{585}{16}$ $\frac{587}{16}$ $\frac{589}{16}$ $\frac{591}{16}$ $\frac{593}{16}$ $\frac{595}{16}$ $\frac{597}{16}$ $\frac{599}{16}$ $\frac{601}{16}$ $\frac{603}{16}$ $\frac{605}{16}$ $\frac{607}{16}$ $\frac{609}{16}$ $\frac{611}{16}$ $\frac{613}{16}$ $\frac{615}{16}$ $\frac{617}{16}$ $\frac{619}{16}$ $\frac{621}{16}$ $\frac{623}{16}$ $\frac{625}{16}$ $\frac{627}{16}$ $\frac{629}{16}$ $\frac{631}{16}$ $\frac{633}{16}$ $\frac{635}{16}$ $\frac{637}{16}$ $\frac{639}{16}$ $\frac{641}{16}$ $\frac{643}{16}$ $\frac{645}{16}$ $\frac{647}{16}$ $\frac{649}{16}$ $\frac{651}{16}$ $\frac{653}{16}$ $\frac{655}{16}$ $\frac{657}{16}$ $\frac{659}{16}$ $\frac{661}{16}$ $\frac{663}{16}$ $\frac{665}{16}$ $\frac{667}{16}$ $\frac{669}{16}$ $\frac{671}{16}$ $\frac{673}{16}$ $\frac{675}{16}$ $\frac{677}{16}$ $\frac{679}{16}$ $\frac{681}{16}$ $\frac{683}{16}$ $\frac{685}{16}$ $\frac{687}{16}$ $\frac{689}{16}$ $\frac{691}{16}$ $\frac{693}{16}$ $\frac{695}{16}$ $\frac{697}{16}$ $\frac{699}{16}$ $\frac{701}{16}$ $\frac{703}{16}$ $\frac{705}{16}$ $\frac{707}{16}$ $\frac{709}{16}$ $\frac{711}{16}$ $\frac{713}{16}$ $\frac{715}{16}$ $\frac{717}{16}$ $\frac{719}{16}$ $\frac{721}{16}$ $\frac{723}{16}$ $\frac{725}{16}$ $\frac{727}{16}$ $\frac{729}{16}$ $\frac{731}{16}$ $\frac{733}{16}$ $\frac{735}{16}$ $\frac{737}{16}$ $\frac{739}{16}$ $\frac{741}{16}$ $\frac{743}{16}$ $\frac{745}{16}$ $\frac{747}{16}$ $\frac{749}{16}$ $\frac{751}{16}$ $\frac{753}{16}$ $\frac{755}{16}$ $\frac{757}{16}$ $\frac{759}{16}$ $\frac{761}{16}$ $\frac{763}{16}$ $\frac{765}{16}$ $\frac{767}{16}$ $\frac{769}{16}$ $\frac{771}{16}$ $\frac{773}{16}$ $\frac{775}{16}$ $\frac{777}{16}$ $\frac{779}{16}$ $\frac{781}{16}$ $\frac{783}{16}$ $\frac{785}{16}$ $\frac{787}{16}$ $\frac{789}{16}$ $\frac{791}{16}$ $\frac{793}{16}$ $\frac{795}{16}$ $\frac{797}{16}$ $\frac{799}{16}$ $\frac{801}{16}$ $\frac{803}{16}$ $\frac{805}{16}$ $\frac{807}{16}$ $\frac{809}{16}$ $\frac{811}{16}$ $\frac{813}{16}$ $\frac{815}{16}$ $\frac{817}{16}$ $\frac{819}{16}$ $\frac{821}{16}$ $\frac{823}{16}$ $\frac{825}{16}$ $\frac{827}{16}$ $\frac{829}{16}$ $\frac{831}{16}$ $\frac{833}{16}$ $\frac{835}{16}$ $\frac{837}{16}$ $\frac{839}{16}$ $\frac{841}{16}$ $\frac{843}{16}$ $\frac{845}{16}$ $\frac{847}{16}$ $\frac{849}{16}$ $\frac{851}{16}$ $\frac{853}{16}$ $\frac{855}{16}$ $\frac{857}{16}$ $\frac{859}{16}$ $\frac{861}{16}$ $\frac{863}{16}$ $\frac{865}{16}$ $\frac{867}{16}$ $\frac{869}{16}$ $\frac{871}{16}$ $\frac{873}{16}$ $\frac{875}{16}$ $\frac{877}{16}$ $\frac{879}{16}$ $\frac{881}{16}$ $\frac{883}{16}$ $\frac{885}{16}$ $\frac{887}{16}$ $\frac{889}{16}$ $\frac{891}{16}$ $\frac{893}{16}$ $\frac{895}{16}$ $\frac{897}{16}$ $\frac{899}{16}$ $\frac{901}{16}$ $\frac{903}{16}$ $\frac{905}{16}$ $\frac{907}{16}$ $\frac{909}{16}$ $\frac{911}{16}$ $\frac{913}{16}$ $\frac{915}{16}$ $\frac{917}{16}$ $\frac{919}{16}$ $\frac{921}{16}$ $\frac{923}{16}$ $\frac{925}{16}$ $\frac{927}{16}$ $\frac{929}{16}$ $\frac{931}{16}$ $\frac{933}{16}$ $\frac{935}{16}$ $\frac{937}{16}$ $\frac{939}{16}$ $\frac{941}{16}$ $\frac{943}{16}$ $\frac{945}{16}$ $\frac{947}{16}$ $\frac{949}{16}$ $\frac{951}{16}$ $\frac{953}{16}$ $\frac{955}{16}$ $\frac{957}{16}$ $\frac{959}{16}$ $\frac{961}{16}$ $\frac{963}{16}$ $\frac{965}{16}$ $\frac{967}{16}$ $\frac{969}{16}$ $\frac{971}{16}$ $\frac{973}{16}$ $\frac{975}{16}$ $\frac{977}{16}$ $\frac{979}{16}$ $\frac{981}{16}$ $\frac{983}{16}$ $\frac{985}{16}$ $\frac{987}{16}$ $\frac{989}{16}$ $\frac{991}{16}$ $\frac{993}{16}$ $\frac{995}{16}$ $\frac{997}{16}$ $\frac{999}{16}$ $\frac{1001}{16}$ $\frac{1003}{16}$ $\frac{1005}{16}$ $\frac{1007}{16}$ $\frac{1009}{16}$ $\frac{1011}{16}$ $\frac{1013}{16}$ $\frac{1015}{16}$ $\frac{1017}{16}$ $\frac{1019}{16}$ $\frac{1021}{16}$ $\frac{1023}{16}$ $\frac{1025}{16}$ $\frac{1027}{16}$ $\frac{1029}{16}$ $\frac{1031}{16}$ $\frac{1033}{16}$ $\frac{1035}{16}$ $\frac{1037}{16}$ $\frac{1039}{16}$ $\frac{1041}{16}$ $\frac{1043}{16}$ $\frac{1045}{16}$ $\frac{1047}{16}$ $\frac{1049}{16}$ $\frac{1051}{16}$ $\frac{1053}{16}$ $\frac{1055}{16}$ $\frac{1057}{16}$ $\frac{1059}{16}$ $\frac{1061}{16}$ $\frac{1063}{16}$ $\frac{1065}{16}$ $\frac{1067}{16}$ $\frac{1069}{16}$ $\frac{1071}{16}$ $\frac{1073}{16}$ $\frac{1075}{16}$ $\frac{1077}{16}$ $\frac{1079}{16}$ $\frac{1081}{16}$ $\frac{1083}{16}$ $\frac{1085}{16}</math$

ENGINEERS' AND STEAM FITTERS' STANDARD TOOLS

PERFECT HANDLE WRENCH



83B5182—The entire bar is drop forged from one piece of steel and fitted with the famous Perfect Handle of waterproofed wood. Made of the best material throughout. Strong and durable. Black finish. (Give size.)

Trade Size	Opens	Weight	Each
8 inches	1 1/4 inches	1 1/2 pounds	\$0.45
10 inches	1 1/2 inches	1 3/4 pounds	.52
12 inches	1 1/4 inches	2 1/2 pounds	.60
15 inches	2 1/4 inches	5 pounds	1.00
21 inches	3 1/8 inches	10 1/2 pounds	1.50

STEEL MONKEY WRENCH



83B5180—Standard Screw Wrench, with wrought-iron bar, head and screws with wood handle. (Give size.)

Size	Weight	Each
8 in.	1 1/4 lbs.	20c
10 in.	1 1/2 lbs.	25c
12 in.	2 1/2 lbs.	30c
15 in.	3 1/4 lbs.	40c

GENUINE COE'S WRENCH



83B5185—Genuine Coe's Screw Wrenches, best wrought iron bar head and screw. Without doubt one of the strongest and best wrenches on the market. Black finish. (Give size.)

Trade Size, in.	Opens, in.	Weight	Each
6	7/8	5/8 lbs.	\$0.38
8	1 1/4	1 1/2 lbs.	.44
10	1 1/2	1 1/2 lbs.	.51
12	2 1/4	2 1/2 lbs.	.60
15	2 1/2	4 1/4 lbs.	1.05
21	4	8 1/2 lbs.	1.55

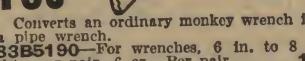
COE'S STAR WRENCH



83B5186—Steel handles. Made for extra difficult service. Jaws are extra heavy steel. The larger sizes, 12 and 21-in., have ball-bearing screw and extended screw support. Black finish. (Give size.)

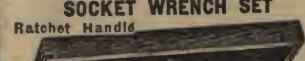
Trade Size, in.	Opens, in.	Weight	Each
6	7/8	3/4 lb.	\$0.40
8	1 1/2	1 1/2 lbs.	.46
10	1 1/2	2 1/2 lbs.	.54
12	2 1/4	3 1/2 lbs.	.65
15	2 1/2	5 1/4 lbs.	1.15
21	4	10 lbs.	1.75

PIPE JAW ATTACHMENT



Converts an ordinary monkey wrench into a pipe wrench.
83B5190—For wrenches, 6 in. to 8 in. Wt. per pair, 6 oz. Per pair, 19c.
83B5191—For wrenches, 10 in. and larger. Wt. per pair, 7 oz. Per pair 23c

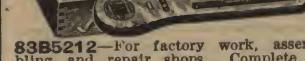
SOCKET WRENCH SET



Ratchet Handle
83B5190—\$4.90

Length, in.	Capacity	Weight	Each
6	1/4 to 1/2 in.	1/2 oz.	\$0.40
8	1/4 to 1/2 in.	1/2 oz.	.46
10	1/4 to 1/2 in.	1/2 oz.	.54
12	1/4 to 1/2 in.	1/2 oz.	.65
15	1/4 to 1/2 in.	1/2 oz.	1.15
21	1/4 to 1/2 in.	1/2 oz.	1.75

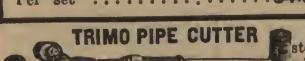
SOCKET WRENCH SET \$2.10



83B5214—With 6 sockets, fitting nuts 1/2, 5/8, 3/4, 11/16, 15/16, 17/16 in. Length, 1 1/4 in. Wt. 4 1/2 lbs. Per set, 85c
83B5215—With 10 sockets, 1/4 to 3/4 in. hex. and square. Wt. 4 1/2 lbs. Per set, 90c

Length, in.	Capacity	Weight	Each
6	1/4 to 1/2 in.	1/2 oz.	\$0.40
8	1/4 to 1/2 in.	1/2 oz.	.46
10	1/4 to 1/2 in.	1/2 oz.	.54
12	1/4 to 1/2 in.	1/2 oz.	.65
15	1/4 to 1/2 in.	1/2 oz.	1.15
21	1/4 to 1/2 in.	1/2 oz.	1.75

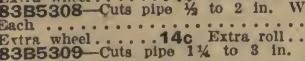
SOCKET WRENCH SET \$2.10



83B5210—Socket Wrench Set, for millwright and factory use. Packed in wooden case, as shown; containing 1 off-set socket wrench, 1 regular T handle socket wrench, and 14 sizes of pressed steel hexagon sockets in sizes from 1/2-inch to 1 1/2-inch. The sockets are case hardened steel mottled finish, and fit hexagon bolts and nuts in general use. Weight, complete, 5 1/2 lbs. Per set \$2.10

Length, in.	Capacity	Weight	Each
6	1/4 to 1/2 in.	1/2 oz.	\$0.40
8	1/4 to 1/2 in.	1/2 oz.	.46
10	1/4 to 1/2 in.	1/2 oz.	.54
12	1/4 to 1/2 in.	1/2 oz.	.65
15	1/4 to 1/2 in.	1/2 oz.	1.15
21	1/4 to 1/2 in.	1/2 oz.	1.75

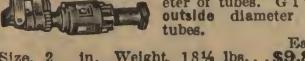
HIGH QUALITY AT A LOW PRICE



83B5212—For factory work, assembling and repair shops. Complete in wooden case, containing 1 ratchet handle, length 10 in., mottled finish and hardened 1 extension bar; 2 screw-driver bits; 19 sizes hexagon sockets (15/32 to 1 1/2), and 7 sizes square sockets (1 1/2 to 1 1/2). Sockets are case hardened, pressed steel and fit a large variety of nuts, cap screws and set screws. Weight, complete, 7 1/2 lbs. Per set \$4.90

Length, in.	Capacity	Weight	Each
6	1/4 to 1/2 in.	1/2 oz.	\$0.40
8	1/4 to 1/2 in.	1/2 oz.	.46
10	1/4 to 1/2 in.	1/2 oz.	.54
12	1/4 to 1/2 in.	1/2 oz.	.65
15	1/4 to 1/2 in.	1/2 oz.	1.15
21	1/4 to 1/2 in.	1/2 oz.	1.75

IDEAL BOILER TUBE CUTTER



83B5330—Self-feed steel blades. Will cut off tubes either inside or outside of boiler head. Turned by means of a simple ratchet. S size means outside diameter of tubes. G size means outside diameter of tubes. Each \$9.80

Length, in.	Capacity	Weight	Each
2 1/2	1 1/2 in.	20 lbs.	9.80
2 1/2	2 1/2 in.	20 lbs.	14.00
2 1/2	3 1/2 in.	20 lbs.	18.00
2 1/2	4 1/2 in.	20 lbs.	22.00

rod complete for boiler tube cutter. Length 22 in. Give size.

Each \$2.85

SPRING TUBE EXPANDER

83B5322—Will expand the tube on both sides of the tube plate, while the jaws retain their original thickness. Made of high grade steel. Give size—outside diameter of tubes, and thickness of tube sheet.

Size	Weight	Each
1 1/4 in.	3 1/4 lbs.	\$2.15
1 1/2 in.	3 1/4 lbs.	2.40
1 3/4 in.	4 1/2 lbs.	2.70
2 1/2 in.	5 1/4 lbs.	3.00
3 in.	10 1/4 lbs.	4.35

ROLLER TUBE EXPANDER \$1.25

83B5320—A popular tool. High grade steel. With extra set of rolls and turning pin. Give size—the outside diameter of tubes or flues.

Size	Weight	Each
1 1/4 in.	1 1/4 lbs.	2 1/2
1 1/2 in.	1 1/2 lbs.	3
1 3/4 in.	1 3/4 lbs.	4
2 1/2 in.	2 1/2 lbs.	5
3 in.	3 1/4 lbs.	6

PERFECTION FLUE CLEANER

83B5345—Spring steel blades. Self sharpening. Give size—the outside diam. of tubes. The brushers are 1/4 in. less.

Size	Weight	Each
1 1/4 in.	1 1/2 lbs.	2 1/2
1 1/2 in.	1 1/2 lbs.	3
1 3/4 in.	1 1/2 lbs.	4
2 1/2 in.	2 1/2 lbs.	5
3 in.	3 1/4 lbs.	6

WIRE FLUE BRUSH

83B5338—Flat Wire. The size of the outside diam. of tubes. The brushers are 1/4 in. less.

Size	Weight	Each
1 1/4 in.	1 1/2 lbs.	2 1/2
1 1/2 in.	1 1/2 lbs.	3
1 3/4 in.	1 1/2 lbs.	4
2 1/2 in.	2 1/2 lbs.	5
3 in.	3 1/4 lbs.	6

ENGINEERS' FAVORITE FLUE SCRAPER

83B5340—Turning handle contracts the ends until they fit snugly against the walls. Give size—the outside diam. of flue. Wt. 1 1/2 to 3 lbs.

Size	Weight	Each
1 1/4 in.	1 1/2 lbs.	2 1/2
1 1/2 in.	1 1/2 lbs.	3
1 3/4 in.	1 1/2 lbs.	4
2 1/2 in.	2 1/2 lbs.	5
3 in.	3 1/4 lbs.	6

BEADING TOOL

ENGINE TRIMMINGS OF QUALITY AT LOW PRICES

COLUMBIA SIGHT-FEED LUBRICATORS **\$335 to \$620**

83B5512—Double Connection Lubricator for stationary and portable engines, finely polished and finished. Brass body, wood wheels and glass body sight feeder. Adapted to feed any clean lubricant oils. Carefully designed, with a view to improving and strengthening the parts which experience has proven weak in other similar lubricators. All sizes are fitted for $\frac{1}{2}$ in. (pipe size) connection. Shipping weight, about 6 to 10 lbs.

AJAX SIGHT-FEED LUBRICATORS **\$360 to \$625**

83B5514—For stationary, traction, and portable engines. A high grade single connection lubricator. Requires only one tapping in steam pipe and can be easily attached to either a horizontal or vertical pipe or in steam chest of engine. Glass sight feed. Brass body finely polished and finished wood hand wheels. Each lubricator is thoroughly tested. All sizes are fitted for $\frac{1}{2}$ in. (pipe size) connections. Shipping weight, about 7 to 10 lbs.

Capacity **Height** **For Cylinder Diameter** **Each**

$\frac{1}{2}$ pint	11 in.	Under 10 in.	\$3.35
$\frac{1}{2}$ pint	11 in.	10 to 12 in.	\$3.60
1 pint	12 $\frac{1}{2}$ in.	12 to 18 in.	4.70
1 quart	14 $\frac{1}{2}$ in.	18 to 30 in.	6.25

STEAM WHISTLE WITH VALVE

83B5540—Solid brass with polished bell. Heavy cast brass valve and base. Wt., lbs., 1, $1\frac{1}{2}$, $2\frac{1}{2}$, 2, 4, 5, 6 $\frac{1}{2}$, and 10. Diam. of Bell, In. Size of Pipe, In. Height, About In. Each

1	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	\$1.10
1 $\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	1.40
2 $\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	1.50
3 $\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	2.40
3 $\frac{1}{2}$	$\frac{3}{4}$	$1\frac{1}{2}$	$1\frac{1}{2}$	3.15
4 $\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	4.20
5	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	5.50

WHISTLE VALVES

83B5541—Brass body. Adjustable lever. Pipe Size | Wgt., Each

$\frac{1}{2}$	10 oz.	.50
$\frac{1}{2}$	14 oz.	.92
$\frac{3}{4}$	1 $\frac{1}{2}$ lb.	1.10
$\frac{1}{2}$	2 $\frac{1}{2}$ lb.	1.10
1 $\frac{1}{2}$	3 lb.	1.80

BELTING. OF QUALITY

Our three kinds, Rubber, Leather and Canvas Belting, are the product of old, reliable manufacturers; those who have won an enviable reputation as makers of thoroughly high grade, reliable goods. We permit no cheapening in the process of manufacturing. Each grade is exactly as represented, and our prices, quality considered, are remarkably low. We carry a large stock and make prompt shipments. We save you 25 to 50 per cent, and MAINTAIN the QUALITY.

RUBBER BELTING

We handle two reliable grades of Rubber Belting, our STANDARD and EXTRA STANDARD grades. Made of strong cotton duck with rubber outer coatings. We do not handle the cheap competition grades, as their use is not economical. Our Standard grade is a very good quality, but we do not recommend it for extremely heavy work. It is sold by many dealers as best grade and gives good satisfaction on light farm machinery, etc. Standard grade should not, however, be used as a Thresher Belt with the expectation that it will give satisfaction. Canvas Belting or our Extra Standard Rubber Belting is better for that purpose. Our Extra Standard Belt is one of the best articles for the price on the market, and suitable for hard service. It can be used as a thresher belt with perfect satisfaction.

STANDARD GRADE

		EXTRA STANDARD GRADE	
Best Quality. Most Satisfactory.		Wt. per ft., 1 to 4 oz.	
Width, in.	1 1/2 to 4 1/2 in.	Width, in.	1 1/2 to 5 in.
Per foot.	3/20 4/20 5c 7c	Per foot.	4/40 5c 8c 8c
Width, in.	2 1/2 to 3 1/2 in.	Width, in.	2 1/2 to 3 1/2 in.
Per foot.	8/20 10c 11/2c 13c	Per foot.	9/20 11c 13c 14/2c
83B5681—2-Ply.	Wt. ft., 3 to 9 oz.	83B5684—3-Ply.	Wt. ft., 3 to 14 oz.
Width, in.	1 1/2 to 2 1/2 in.	Width, in.	1 1/2 to 2 1/2 in.
Per foot.	6c 7c 9/2c 12c	Per foot.	6/20 8c 11c 13c 15c
Width, in.	3 1/2 to 4 1/2 in.	Width, in.	4 1/2 to 5 1/2 in.
Per foot.	14c 15c 19c 23c	Per foot.	17c 22c 26c 30c 34c
83B5682—4-Ply.	Wt. ft., 6 to 24 oz.	83B5685—5-Ply.	Wt. ft., 6 to 27 oz.
Width, in.	3 1/2 to 4 1/2 in.	Width, in.	3 1/2 to 4 1/2 in.
Per foot.	14c 16/2c 19c 21c	Per foot.	16c 18c 21c 24c
Width, in.	5 1/2 to 7 1/2 in.	Width, in.	5 1/2 to 7 1/2 in.
Per foot.	23c 27c 32c 38c	Per foot.	26c 31c 36c 41c
Width, in.	9 10 12 in.	Width, in.	9 10 12 in.
Per foot.	41c 45c 53c	Per foot.	46c 51c 60c

ENDLESS RUBBER BELTS

283B5687—Endless Rubber Belts are made to order, which causes a delay of from two to three weeks. They will be shipped to directly from factory. We furnish them in Extra Standard grade only. When ordering Endless Belt always allow three feet of the belt you are ordering for the cost of making the lap. Do not include this three feet in the actual length of belt you want, but simply allow money to pay for it. For example, if you wanted endless belt 100 feet long, send money enough for 103 feet. To avoid delay, we recommend the use of our regular belt and belt lacing, which makes an absolutely secure joint, and is less expensive. In this way you also save the cost of three extra feet of belting to make the lap. For prices and weights, see Extra Standard Belt, above.

Shipped from factory in Northern Illinois.



LEATHER BELTING

STANDARD



EXTRA STANDARD



We have two good grades of Leather Belting, Standard and Extra Standard. We do not sell the very cheap Competitors' or Agricultural grades, which are never satisfactory and always dear at any price.

Our Standard Belting is a good medium quality, made up to 4 in. wide. Suitable for ordinary mill, factory and farm machinery purposes, and for this service will give good satisfaction.

Extra Standard Leather Belting is made from selected, short lap, oak tanned stock, cut from the center of the hide. It is recommended for thresher belts, high speed pulleys, and for hard factory or mill usage. It is the best leather belting in the market for the money. Quality always of the best.

Notice—Do not run leather belts in very damp or wet places, but use rubber or stitched canvas belting under such conditions.

83B5704—STANDARD GRADE.

Wt. per ft., about 1 to 5 oz.

Width, in. 1 1/2 to 5 in.

Per foot. 7c 9c 11c 12c 14c

Width, in. 2 1/2 to 3 1/2 in.

Per foot. 16c 18c 21c 25c 28c

83B5705—EXTRA STANDARD GRADE.

Wt. per ft., about 1 to 12 oz.

Width, in. 1 1/2 to 5 in.

Per foot. 9c 11c 13c 15c 18c

Width, in. 2 1/2 to 3 1/2 in.

Per foot. 20c 22c 24c 26c 31c

Width, in. 4 1/2 to 5 1/2 in.

Per foot. 35c 40c 44c 48c 52c 68c 77c

CANVAS BELTING

BEST QUALITY—FULL WEIGHT

Our Stitched Canvas Belting is unaffected by atmospheric changes, uninfluenced by water or steam, and may be subjected to a degree of heat that would be ruinous to other belting. It is therefore the best belting for outdoor use and for damp or hot places. Made of special long fibre cotton duck, carefully woven and closely stitched. Thoroughly stretched and inspected. Thoroughly saturated in oil, which makes it permanently water-proof and flexible. Painted with a special red paint which gives the belt an excellent, non-slipping surface. Always remains flexible in hot or cold weather.

FOUR-PLY

Wt. per ft., 2 1/2c 3c 5c 6c 8c 10c 11c 13c 15c 17c oz.

83B5690—Four-Ply Belting.

Width, in. 1 1/2 to 5 in.

Per foot. 5c 6c 8c 10c 15c 18c 22c 25c 30c 33c

Width, in. 6 7 8 9 10 12 13 14 15 16 in.

Per foot. 20c 22c 25c 28c 33c 38c 42c 50c



Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

ENDLESS CANVAS THRESHER BELTS

Our Stitched Canvas Thresher Belts are made from especially prepared, strong, heavy cotton duck, thoroughly stretched. Saturated in oil and sewed from end to end under heavy tension, making a very strong yet always pliable and water-proof fabric. Painted with a special red paint which gives the belt an excellent non-slipping surface. Not affected by water, heat, steam or atmospheric changes. Especially adapted for threshers, saw mills, and similar severe uses. Each belt is made endless at the factory, and as it requires three feet to make the lap, therefore, each belt will measure just three feet short. For example, the actual net length of a 100-ft. belt will be 97 ft. We carry the following standard lengths in stock and can make prompt shipment: 80, 100, 120, 130, 140, 150, 160 ft. (Actual lengths are 3 ft. less than given). Special lengths and sizes, other than here listed, have to be made to order at factory and usually cause a delay of two to three weeks. For such sizes, always include the price of 3 ft. extra to cover cost of lap and labor.

SIX-PLY

Wt. per ft., 6c 8c 10c 12c 14c 16c 19c 22c 25oz.

83B5692—Six-Ply Belting.

Width, in. 1 1/2 to 5 in.

Per foot. 15c 18c 22c 25c 30c 33c 38c 42c 50c

Width, in. 3 4 5 6 7 8 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

Per foot. 38c 42c 50c

Width, in. 9 10 12 13 14 15 16 in.

EASY ACTING

IRON WELL PUMPS

STRONG, DURABLE

THIS SHOWS
THE USUAL
FORM OF
PUMP
INSTALLATION



ANTI-FREEZING LIFT PUMP \$2.75

183B5800 — Anti-freezing well pump with a 4-ft. set length. A medium weight, well made pump for wells not over 30 ft. deep. For deeper wells we suggest the use of one of our heavier pumps as shown on this page. Has a 3x10-inch iron cylinder with wrought iron set length and steel rod. Stroke, 6 in. Fitted for 1/4 in. suction pipe. Made in one size only. Shipping weight, 55 lbs. Each \$2.75

ANTI-FREEZING LIFT PUMP \$3.05

Heavy Pattern anti-freezing well pump, with 4-ft. set length. A good durable pump for wells up to 30 ft. deep. For deeper wells order our pump standard, with cylinder and pipe as explained at top of this page. The set length is wrought iron and connected under spout. Prices are for pump with iron cylinder. Stroke, 6 in. Average ship. wt., 63 to 75 lbs.

183B5804 — Cylinder, 2 1/2 in.; for pipe, 1/4 in. Each \$3.05

183B5805 — Cylinder, 3 in.; for pipe, 1/4 in. Each \$3.10

183B5806 — Cylinder, 3 1/2 in.; for pipe 1 1/2 in. Each \$3.40

183B5807 — Cylinder, 4 in.; for pipe 2 in. Each \$4.10

ANTI-FREEZING HAND FORCE PUMP \$4.95

Heavy Force Pump, with air chamber in top of stock and a 4 ft. set length. Has a brass stuffing box, polished piston and is substantially made throughout. For wells up to 30 ft. deep.

Prices are for pumps with iron cylinders. Stroke, 6 in. Complete with 3/4 in. hose connection. Back of spout is tapped for 1/4 in. pipe. Average ship. wt., 80 to 95 lbs.

183B5810 — Cylinder, 2 1/2 in.; for pipe 1 1/4 in. Each \$4.95

183B5811 — Cylinder, 3 in.; for pipe 1 1/4 in. Each \$5.10

183B5812 — Cylinder, 3 1/2 in.; for pipe 1 1/2 in. Each \$5.35

183B5813 — Cylinder, 4 in.; for pipe 2 in. Each \$6.00

ANTI-FREEZING LIFT PUMP \$4.10

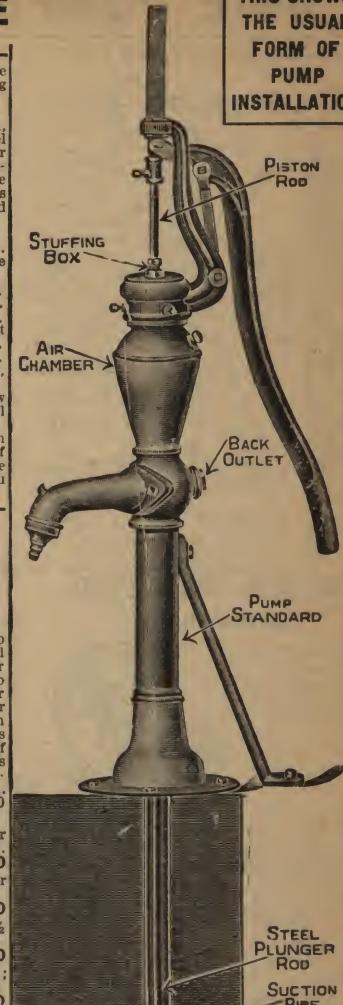
With 4 ft. set length. A substantial pump for windmill or hand use. Adapted for either open or dug wells up to 30 feet in depth. For deeper wells order our pump standard with cylinder and pipe, as explained at top of this page. Prices are with iron cylinder. Stroke, 6 in. Average ship. wt., 70 to 80 lbs.

183B5820 — Cylinder 2 1/2 in.; for pipe 1 1/4 in. Each \$4.10

183B5821 — Cylinder 3 in.; for pipe 1 1/4 in. Each \$4.20

183B5822 — Cylinder 3 1/2 in.; for pipe 1 1/2 in. Each \$4.40

183B5823 — Cylinder 4 in.; for pipe 2 in. Each \$5.00



ANTI-FREEZING FORCE PUMP WINDMILL TOP \$6.45

With 4 ft. set length. For wells up to 30 ft. deep. Has cock spout with 3/4 in. hose coupling so that water can be forced in tank or discharged at spout. Back of spout tapped for 1 1/4 in. pipe. Stroke, 6 in. Average ship. wt., 85 to 90 lbs.

183B5828 — Cylinder, 2 1/2 in.; for pipe 1 1/4 in. Each \$6.45

183B5829 — Cylinder, 3 in.; for pipe 1 1/4 in. Each \$6.60

183B5830 — Cylinder, 3 1/2 in.; for pipe 1 1/2 in. Each \$6.75

183B5831 — Cylinder, 4 in.; for pipe 2 in. Each \$7.50

LIFT PUMP STANDARD

\$2.15

183B5840 — Pump Standard only, for wells of moderate depth. This standard can be fitted with iron or brass cylinder and wrought iron which will make an excellent outfit where a force pump is not needed. Stroke, 6 in. Same as our 183B5804, but without set-length or cylinder. Price does not include cylinder or pipe. Fitted for 1 1/4, 1 1/2 or 2 in. pipe. For further information regarding cylinder and pipe, see explanation at top of this page. This pump, and all pumps on this page have revolving cap, held by set screw, which permits the handle to be turned in any desired position. Ship. wt., about 40 lbs. Each \$2.15

(Give pipe size wanted.)

LIFT PUMP STANDARD WINDMILL TOP \$3.35

A good lift pump standard with windmill top, but also makes a first-class hand pump. It is the same as our 183B5820 etc., without the cylinder and set-length. Strong enough for wells up to 100 ft. deep. Has very high spout. Long handle on adjustable cap. Prices do not include cylinders or pipe. Fitted for 1 1/4, 1 1/2 or 2 in. pipe. This and all pumps on this page have revolving cap, held by set screw, which permits the handle to be turned in any desired position. Ship. wt., about 60 lbs.

183B5842 — With 6 in. stroke. Each \$3.35

183B5843 — With 10 in. stroke. Each \$3.80

(Give pipe size wanted.)

LIFT PUMP STANDARD FOR HAND OR WINDMILL \$2.95

A substantial lift pump standard, that may be used as a hand pump, or in connection with a windmill. Made in two sizes of stroke. Strong enough for wells up to 100 ft. deep. Has regular spout with good size openings. Prices do not include cylinders or pipe. Fitted for 1 1/4, 1 1/2, or 2 in. pipe. This pump and all pumps on this page have revolving cap, held by set screw, which permits the handle to be turned in any desired position. Ship. wts., 52 and 60 lbs.

183B5848 — With 6 in. stroke. Each \$2.95

183B5849 — With 10 in. stroke. Ea. \$3.40

Give pipe size wanted.

OUR
PUMPS
ARE
EASY
TO
INSTALL

FORCE PUMP STANDARD WINDMILL TOP \$4.35

Force Pump for windmill or hand use. Bolted top cap. Extra large solid piston rod. A strong, durable pump and a great favorite. For wells up to 100 feet deep. Prices do not include cylinder or pipe. Fitted for 1 1/4, 1 1/2 or 2 in. pipe. With 3/4 in. hose connection at spout. Back of spout tapped for 1 1/4 in. pipe. This pump and all pumps on this page have revolving cap, held by set screw, which permits the handle to be turned in any desired position. Ship. wts., 64 and 71 lbs.

183B5850 — Stroke 6 in. Each \$4.35

183B5851 — Adjustable stroke. Each \$4.80

Give pipe size wanted.

FORCE PUMP STANDARD WINDMILL TOP \$4.95

Has long oscillating fulcrum link, pivoted at base instead of at the top. This relieves the cap from strain, eliminating danger from breaking and making a very strong pump which will give excellent service. For wells up to 100 ft. deep. Back of spout tapped for 1 1/4 in. pipe.

Prices do not include cylinder or pipe. Fitted for 1 1/4, 1 1/2 or 2 in. pipe. With 3/4 in. hose coupling on spout. This pump and all pumps on this page have revolving cap, held by set screw, which permits the handle to be turned in any position. Ship. wts., 66 and 75 lbs.

183B5854 — Stroke 6 in. Each \$4.95

183B5856 — Stroke 10 in. Each \$5.40

Give pipe size wanted.

FORCE PUMP STANDARD WINDMILL TOP \$4.35

A neat, solid and compact force pump standard. Same as our 183B5828, but without cylinder set-length. For wells up to 100 ft. deep. Prices do not include cylinder or pipe. Fitted for 1 1/4, 1 1/2 or 2 in. pipe. Spout has 3/4 in. hose connection. Back is tapped for 1 1/4 in. pipe. Shipping weight, 63 to 74 lbs. Furnished with either plain or faucet spout.

183B5858 — Stroke 6 in. Each \$4.35

183B5859 — Stroke 10 in. Each \$4.80

With Cock Spout

183B5860 — Stroke 6 in. Each \$5.15

183B5861 — Stroke 10 in. Each \$5.60

Give pipe size wanted.

HEAVY FORCE PUMP STANDARD WINDMILL TOP \$7.00

For windmill or hand use. Extra strong for any depth well. Large air chamber on spout with top outlet. Spout is fitted with 1 in. hose coupling. Top of air chamber is tapped for 1 1/4 in. iron pipe. Prices do not include cylinder or pipe. This pump standard should be used with large cylinder, or where water is to be forced some distance. Fitted for 1 1/2 or 2 in. iron pipe. For further information regarding cylinder and pipe, see explanation at top of this page. This pump, and all pumps on this page have revolving cap, held by set screw, which permits the handle to be turned in any desired position. Ship. wts., 90 lbs.

183B5865 — With 6 in. stroke. Each \$7.00

183B5866 — With 10 in. stroke. Each \$7.50

Give pipe size wanted.

GEARED PUMP STANDARD WINDMILL TOP \$3.90

An easy acting pump standard of large capacity. Strong and substantial. One of the easiest working pumps on the market. The geared handle head working in cogs on slide bar, gives a direct leverage. Roller at back edge of sliding bar, lessens the friction. Suitable for wells up to 100 ft. deep. Stroke, 6 in.

Fitted for 1 1/4, 1 1/2 or 2 in. pipe. Price is for Pump Standard only. Order pump cylinder pipe and pump rod extra. In two styles. Lift or Force pump. Shipping weight, 66 and 70 lbs.

183B5863 — Lift Pump Standard as above. Each \$3.90

183B5864 — Force Pump Standard as above. Tapped at back of spout for 1 1/4-in. pipe, with 3/4-in. hose coupling. Each \$4.70

Give pipe size wanted.

HEAVY-LIFT PUMP STANDARD WINDMILL TOP \$4.95

Heavy lift pump standard with extra large spout, designed for stock pump or where large amount of water is required. Suitable for wells up to 100 ft. deep. The spout has a full 2-in. opening, and the body is large in proportion. Tapped for 2-in. or 2 1/2-in. suction pipe. Prices do not include cylinder or pipe. For further information regarding cylinder and pipe, see explanation at top of this page. This pump, and all pumps on this page have revolving cap, held by set screw, which permits the handle to be turned in any desired position. Ship. wts., 83 and 88 lbs.

183B5846 — Stroke, 6 in. Each \$4.95

183B5847 — Stroke, 10 in. Each \$5.50

Give pipe size wanted.

PLUNGER

CYLINDER

CHECK VALVE

PIPE

STRAINER POINT

See Index
for Our
Pipe Tool
Sets

FORCE PUMPS, KITCHEN PUMPS, RAMS AND PUMP ACCESSORIES

DOUBLE ACTING FORCE PUMP

STROKE 6 IN.

183B5870 — Anti-freezing pump for wells not exceeding 30 ft. in depth. Will throw a steady stream and is easy of operation. Solid and substantial in construction. Small upper cylinder of brass. Can be furnished with a three-way cock if desired, for conducting water underground to a tank. Prices are for pumps complete with galvanized, 7 ft. set length, $\frac{3}{4}$ in. hose coupling and cylinder. Average shipping weight, 105 lbs. Width of set length, about 8 in.

Size	Size of Cylinder In.	For Pipe In.	With Iron Cylinder	With Brass Lined Cylinder
1	3	\$8.20	\$9.40	
2	3 1/2	9.00	10.20	

Notice—If wanted with three-way cock, add \$1.50 to above prices.

PITCHER SPOUT PUMP

STANDARD TYPE

Heavy and substantially built. For cisterns and wells not over 20 ft. deep. The cylinder is bored out and planed smooth. Delivers a large volume of water with little exertion. Top is closed to prevent splashing. To prevent freezing, raise handle to its extreme height. This will trip the valve and water will drain off.

183B5910 — Size 1. Bore, 2 1/2 in. For 1/4 in. iron pipe. Shipping weight, 20 lbs. Each 900

183B5911 — Size 2. Bore, 3 in. For 1/4 in. iron pipe. Shipping weight, 22 lbs. Each 1050

183B5912 — Size 3. Bore, 3 1/4 in. For 1/4 in. iron pipe. Shipping weight, 28 lbs. Each 2150

183B5913 — Size 4. Bore, 4 in. For 1/4 in. iron pipe. Shipping weight, 30 lbs. Each 2420



DOUBLE ACTING FORCE PUMP

Windmill Top. (Stroke 6 in.)
183B5872 — Anti-freezing Pump. For wells not over 30 ft. in depth. Will throw a steady stream. Easy to operate and substantially constructed. Small upper cylinder of brass. Can be furnished with a lower three-way cock if it is desired to conduct water underground to a tank. Prices are for pumps complete with 7 ft. galvanized set-length cylinder and $\frac{3}{4}$ in. hose coupling. Average shipping weight, 115 lbs. Width of set-length, about 8 inches.

Size	Size of Cylinder In.	For Pipe In.	With Iron Cylinder	With Brass Lined Cylinder
1	3	\$8.90	\$10.10	
2	3 1/2	9.70	10.85	

Notice—If wanted with lower three-way cock, add \$1.50 to above prices.

KITCHEN FORCE PUMP

With Solid Brass Body

183B5915 — This pump differs from our Pitcher Spout Pump, being a force pump. By connecting pipe to top outlet, water may be pumped up to an elevated storage tank in attic or elsewhere; or it may be drawn off at sink by opening faucet on pump, as preferred. Pump is very strongly built, and well finished. Cylinder is 3 inches in diameter. Seamless tubing, nicely polished. For wells and cisterns not over 20 ft. deep. Fitted for 1/4 in. suction pipe and 1 in. discharge. Faucet threaded for $\frac{3}{4}$ in. hose connection. One of the finest little hand pumps on the market for kitchen use.

183B5916 — Size 1. Bore, 3 in. For 1/4 in. iron pipe. Shipping weight, 30 lbs. Each 345

183B5917 — Size 2. Bore, 3 1/4 in. For 1/4 in. iron pipe. Shipping weight, 35 lbs. Each 435

183B5918 — Size 3. Bore, 3 1/2 in. For 1/4 in. iron pipe. Shipping weight, 40 lbs. Each 535

183B5919 — Size 4. Bore, 4 in. For 1/4 in. iron pipe. Shipping weight, 45 lbs. Each 585

\$3.45

\$4.85

\$5.85

KITCHEN FORCE PUMP

HEAVY DESIGN

Throws a large volume of water with very little exertion. For cisterns and wells not over 20 ft. deep. Fitted with heavy cast iron spout cock, with $\frac{3}{4}$ in. hose coupling, as shown. When it is desired to pump water to attic tank, spout cock is closed, so that water is directed to tank through opening in back of spout which is tapped for 1 in. iron pipe. Fitted for 1/4 in. suction pipe. Shipping weight, 30 pounds.

183B5918 — Kitchen Force Pump, with 3 in. iron cylinder. Each 485

183B5919 — Kitchen Force Pump, with 3 in. brass lined cylinder. Each 585

\$4.85

\$5.85

WINDMILL FORCE PUMP THREE WAY VALVE

Windmill Top

Anti-freezing Pump. With improved vertical distributing valve. Can be used in wells of any depth. The distributing lower valve is operated the same as an ordinary globe valve, and by turning wheel handle the water may be directed through the underground pipe to water supply system or elevated storage tank, distant stock watering trough, etc.

Price includes pump standard only, with extension below pump base including three-way valve as shown. Spout of pump is fitted with $\frac{3}{4}$ in. hose coupling. Pump is tapped for 1/4 in. discharge pipe and 1/4, 1/2, or 2 in. suction pipe. Size of suction pipe determined by size of cylinder. Length, from platform to lower elbow, 4 ft. 10 in. Average shipping wt., 100 pounds.

183B5875 — With 6 in. stroke. Each 810

183B5876 — With 10 in. stroke. Each 860

We can fit this pump complete for any depth well by adding the cost of pipe and 5¢ foot extra for plunger rod and labor.

CONTRACTORS' DIAPHRAGM PUMPS

For pumping water from mines, stone quarries, collars, ditches, and for irrigation purposes, where the water is not more than 20 ft. (vertically), from pump. Will easily handle large quantities of sewage, sand, gravel, etc. Extra heavy, with best grade rubber diaphragms. With hinged air chamber, and will work easily against heavy pressure. With 6 in. stroke, and hose coupling on spout. Average shipping weight, 81 to 85 lbs.

With Bottom Suction.

183B5940 — Size 1. Capacity per stroke, $\frac{1}{4}$ gal. Takes 2 1/2 in. iron pipe or hose. Ship. wt., 75 lbs. Each 875

183B5941 — Size 2. Capacity per stroke, $\frac{1}{2}$ gal. Takes 3 in. iron pipe or hose. Ship. wt., 150 lbs. Each 1290

183B5942 — Size 1. Capacity per stroke, $\frac{1}{4}$ gal. Takes 2 1/4 in. iron pipe or hose. Ship. wt., 155 lbs. Each 935

183B5943 — Size 2. Capacity per stroke, $\frac{1}{2}$ gal. Takes 3 in. iron pipe or hose. Ship. wt., 155 lbs. Each 1360

183B5946 — Size 1. Wt., 1 lb. Each 100

183B5948 — Size 2. Wt., 2 lbs. Each 140



DOUBLE ACTING FORCE PUMP THREE WAY VALVE

Windmill Top

Complete with upper and lower cylinder. Has a quick acting cam lever shifting device, and lower three way valve. Water can be forced through underground pipe to storage tank or from the spout as desired. The upper cylinder is of drawn brass tubing. Has a large air chamber, and will work easily against heavy pressure. With 6 in. stroke, and hose coupling on spout. Average shipping weight, 81 to 85 lbs.

183B5880 — With 3 in. Iron Cylinder for 1/4 in. Pipe. Each 5760

183B5881 — With 3 1/4 in. Iron Cylinder for 1/4 in. Pipe. Each 8810

183B5882 — With 3 in. Brass Lined Cylinder for 1/4 in. Pipe. Each 8815

183B5883 — With 3 1/4 in. Brass Lined Cylinder for 1/4 in. Pipe. Each 8850

We can fit this pump complete for any depth well by adding the cost of pipe and 5¢ foot extra for plunger rod and labor.

IRON AND BRASS WELL CYLINDERS

Made heavy and strong, bored smooth, and fitted with best valves and leathers. The proper size cylinder to use must be determined by your own good judgment, but for ordinary hand use we suggest the following:

Size Cylinder, In.

3/4 to 1 in. 3 to 3 1/2 in.

3 1/2 to 3 in. 2 1/2 to 3 in.

For windmills a somewhat smaller cylinder should be used, but this will depend on the size of your mill.

The larger cylinders raise more water per stroke, but require more power.

The 10 inch and 12 inch cylinders have a 6 inch stroke, and the 16 inch cylinders have a 10 inch stroke. They are usually fitted 1 1/4 inch pipe for all cylinders smaller than 3 1/4 inch, and 1 1/2 inch or 2 inch pipe for cylinders 3 1/4 inch to 4 inch. Give pipe size when ordering.



Note—Be sure to give pipe size when ordering.

STANDARD PUMP FITTINGS

PUMP LEATHERS

GEARED HEAD FORCE PUMP

Easy working, compact and substantially designed.

For pumping water from cisterns, shallow wells, etc., to elevated tanks, pneumatic water supply systems, etc. Also adapted for fire protection, filling busses, as a deck pump, and for many other purposes. Has a geared drive. A smooth, easy operating pump. Has a cushion air chamber, brass piston rod and

PIPE STRAINER

83B5998 — Fastens to end of suction pipe with set screw. Made of malleable iron; will not break. Covered with brass wire cloth. Average length, 6 1/2 in.

83B6000 — Spiral Earth Augers

Forged from special steel, properly tempered. For boring wells in any soil that is free from large rocks or hard pan. Regular standard wrought pipe is used and should be cut in short pieces. The sizes 2 1/4 and 3 in. are fitted for 1 1/4 in. pipe. Sizes 4 and 6 in. are fitted for 2 in. pipe. In two styles.

83B6004 — Eureka Tubular Well Cylinder

83B6005 — Used chiefly in deep wells to slip inside of pipe after well is completed. Can be fastened at any point and withdrawn for repairs without removing the pipe from the well. Solid brass body complete as shown. Has 12 inch stroke. Not made smaller than for 2 in. pipe.

When ordering pipe for this cylinder, specify that pipe be plugged and reamed, for which an extra charge is made of approximately 1¢ per foot. Size, 2 in., weight, 6 lbs.

Each 240

83B6004 — Eureka Cylinder Seating Tool

83B6005 — Threaded to take 1 in. pipe. Used to fasten 2 in. Eureka cylinder in place. Weight, 1 1/4 lbs.

Each 250

83B5976 — Threaded to take 1 in. pipe. Used to fasten 2 in. Eureka cylinder in place. Weight, 1 1/4 lbs.

Each 250

83B5975 — Used chiefly in deep wells to slip inside of pipe after well is completed. Can be fastened at any point and withdrawn for repairs without removing the pipe from the well. Solid brass body complete as shown. Has 12 inch stroke. Not made smaller than for 2 in. pipe.

When ordering pipe for this cylinder, specify that pipe be plugged and reamed, for which an extra charge is made of approximately 1¢ per foot. Size, 2 in., weight, 6 lbs.

Each 240

83B5976 — Threaded to take 1 in. pipe. Used to fasten 2 in. Eureka cylinder in place. Weight, 1 1/4 lbs.

Each 250

83B5975 — Used chiefly in deep wells to slip inside of pipe after well is completed. Can be fastened at any point and withdrawn for repairs without removing the pipe from the well. Solid brass body complete as shown. Has 12 inch stroke. Not made smaller than for 2 in. pipe.

When ordering pipe for this cylinder, specify that pipe be plugged and reamed, for which an extra charge is made of approximately 1¢ per foot. Size, 2 in., weight, 6 lbs.

Each 240

83B5976 — Threaded to take 1 in. pipe. Used to fasten 2 in. Eureka cylinder in place. Weight, 1 1/4 lbs.

Each 250

83B5975 — Used chiefly in deep wells to slip inside of pipe after well is completed. Can be fastened at any point and withdrawn for repairs without removing the pipe from the well. Solid brass body complete as shown. Has 12 inch stroke. Not made smaller than for 2 in. pipe.

When ordering pipe for this cylinder, specify that pipe be plugged and reamed, for which an extra charge is made of approximately 1¢ per foot. Size, 2 in., weight, 6 lbs.

Each 240

83B5976 — Threaded to take 1 in. pipe. Used to fasten 2 in. Eureka cylinder in place. Weight, 1 1/4 lbs.

Each 250

83B5975 — Used chiefly in deep wells to slip inside of pipe after well is completed. Can be fastened at any point and withdrawn for repairs without removing the pipe from the well. Solid brass body complete as shown. Has 12 inch stroke. Not made smaller than for 2 in. pipe.

When ordering pipe for this cylinder, specify that pipe be plugged and reamed, for which an extra charge is made of approximately 1¢ per foot. Size, 2 in., weight, 6 lbs.

Each 240

83B5976 — Threaded to take 1 in. pipe. Used to fasten 2 in. Eureka cylinder in place. Weight, 1 1/4 lbs.

Each 250

83B5975 — Used chiefly in deep wells to slip inside of pipe after well is completed. Can be fastened at any point and withdrawn for repairs without removing the pipe from the well. Solid brass body complete as shown. Has 12 inch stroke. Not made smaller than for 2 in. pipe.

When ordering pipe for this cylinder, specify that pipe be plugged and reamed, for which an extra charge is made of approximately 1¢ per foot. Size, 2 in., weight, 6 lbs.

Each 240

83B5976 — Threaded to take 1 in. pipe. Used to fasten 2 in. Eureka cylinder in place. Weight, 1 1/4 lbs.

Each 250

83B5975 — Used chiefly in deep wells to slip inside of pipe after well is completed. Can be fastened at any point and withdrawn for repairs without removing the pipe from the well. Solid brass body complete as shown. Has 12 inch stroke. Not made smaller than for 2 in. pipe.

When ordering pipe for this cylinder, specify that pipe be plugged and reamed, for which an extra charge is made of approximately 1¢ per foot. Size, 2 in., weight, 6 lbs.

Each 240

83B5976 — Threaded to take 1 in. pipe. Used to fasten 2 in. Eureka cylinder in place. Weight, 1 1/4 lbs.

Each 250

83B5975 — Used chiefly in deep wells to slip inside of pipe after well is completed. Can be fastened at any point and withdrawn for repairs without removing the pipe from the well. Solid brass body complete as shown. Has 12 inch stroke. Not made smaller than for 2 in. pipe.

When ordering pipe for this cylinder, specify that pipe be plugged and reamed, for which an extra charge is made of approximately 1¢ per foot. Size, 2 in., weight, 6 lbs.

Each 240

83B5976 — Threaded to take 1 in. pipe. Used to fasten 2 in. Eureka cylinder in place. Weight, 1 1/4 lbs.

Each 250

83B5975 — Used chiefly in deep wells to slip inside of pipe after well is completed. Can be fastened at any point and withdrawn for repairs without removing the pipe from the well. Solid brass body complete as shown. Has 12 inch stroke. Not made smaller than for 2 in. pipe.

When ordering pipe for this cylinder, specify that pipe be plugged and reamed, for which an extra charge is made of approximately 1¢ per foot. Size, 2 in., weight, 6 lbs.

Each 240

83B5976 — Threaded to take 1 in. pipe. Used to fasten 2 in. Eureka cylinder in place. Weight, 1 1/4 lbs.

Each 250

83B5975 — Used chiefly in deep wells to slip inside of pipe after well is completed. Can be fastened at any point and withdrawn for repairs without removing the pipe from the well. Solid brass body complete as shown. Has 12 inch stroke. Not made smaller than for 2 in. pipe.

When ordering pipe for this cylinder, specify that pipe be plugged and reamed, for which an extra charge is made of approximately 1¢ per foot. Size, 2 in., weight, 6 lbs.

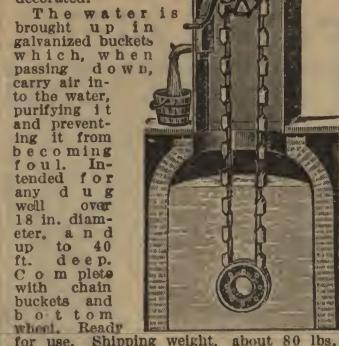
Each 240

83B5976 — Threaded to take 1 in. pipe. Used to fasten 2 in. Eureka cylinder in place. Weight, 1 1/4 lbs.

Each 250

LAKESIDE WATER ELEVATORS AND PURIFYING PUMPS

Made from selected, seasoned lumber, painted and decorated.



WATER ELEVATORS AND PURIFIERS \$645 GALVANIZED STEEL

Made of heavy galvanized sheet steel, with heavy cast iron base. One of the neatest and strongest pumps made. Every precaution should be taken to secure the circulation of pure air through the water you drink. Pump operates in the same way as a 183B6100 shown in the first column. Complete with chain buckets and bottom wheel. Ready for use. Shipping weight, about 60 pounds.



Shipping weight, about 80 lbs.

183B6100	For 10-foot well	\$4.45
183B6101	For 15-foot well	5.35
183B6102	For 20-foot well	6.25
183B6103	For 25-foot well	7.15
183B6104	For 30-foot well	8.05
183B6105	For 35-foot well	8.95
183B6106	For 40-foot well	9.85

For suitable iron platform, see No. 183B6136.

For suitable iron platform, see No. 183B6137.

RUBBER BUCKET CHAIN PUMPS \$400 GALVANIZED STEEL

Furnished complete, ready for use. Made of heavy galvanized steel. With heavy cast iron base.

The fixtures are of the latest improved pattern. In construction, material and workmanship this pump cannot be surpassed. Handsomely decorated with two coats of paint and one coat of varnish.

Each pump is complete with galvanized steel tubing, chain and rubber buckets. Ship. wt. of pump, about 35 lbs.

RUBBER BUCKET CHAIN PUMPS \$250 WOOD CASE

Made of well-seasoned wood, painted and decorated. Complete with galvanized steel tubing, chain and rubber buckets. Ship. wt. of pump, about 35 lbs.

183B6128	For well 10 ft. deep	\$2.50
183B6129	For well 12 ft. deep	\$2.70
183B6130	For well 15 ft. deep	\$3.00
183B6131	For well 18 ft. deep	\$3.35
183B6132	For well 20 ft. deep	\$3.45



GALVANIZED PUMP CHAINS

83B6145—Made of the best grade of steel rod, thoroughly galvanized. For use with rubber buckets in pumps. Links are easily opened to attach bucket. Weight, 6 oz. per foot.

Per foot 2½c

RUBBER PUMP BUCKETS

83B6142—Rubber Buckets for chain pumps. Made of best grade of white rubber, and heavily tinned iron links. With small hole in the edges so that water will drain from tube. Size 1½ in. Weight, 1½ oz. Per dozen 35c

Galvanized Chain Buckets

183B6118—Strong, galvanized iron Chain Buckets, to fit both of our chain bucket pumps, listed above. Sizes of bucket, 2x2½x1¼ in. long. Length of bucket, including two links, 12 in. Furnished in any continuous length. Weight, per foot, 1 lb. Per foot 9c

PUMP TOOLS AND ACCESSORIES

PUMP PLATFORMS \$4.50 FOR ELEVATOR OR CHAIN PUMPS

Made of heavy cast iron; will last a lifetime and are far better than wood.

Use an iron platform with your pump; keep your well water pure and clean.

183B6135—For 183B6120 Pumps, etc. Width, 3½ in.; Length, 34 in. Shipping weight, about 75 lbs. Each \$4.50

183B6136—For Pumps 183B6100, etc. Width, 33 in.; Length, 40 in. Shipping weight, about 86 lbs. Each \$4.50

183B6137—For Pumps 183B6110, etc. Width, 33 in.; Length, 40 in. Shipping weight, about 91 lbs. Each \$4.50

Safety Cistern Covers

183B6140—A slight turn of the cover locks it. Cast iron. To fit opening 20 in. Diam., at top, 24 in. Ship. wt., 51 lbs. Each \$2.10

SANITARY WELL COVERS

183B6035—Seals the well tight from surface contamination. Cast iron, nicely painted. Should be set in cement. Pump and cover can be removed for repairs. Diam., 24 in., center opening, 6 in. Slotted bolt holes. Ship. wt., 55 lbs. Each \$3.75

IRON PUMP STANDS

Made of cast iron. Slots for bolts. Holds the pump tight and rigid. Ship. wts., 22 and 24 lbs. Size given means inside diam. of pipe and of casting.

183B6060—For Standard Pipe. Pipe size, 4 in. 5 in. 6 in. Each \$1.30 \$1.50 \$1.75

183B6061—For Well Casing. Casing size, 4½ in. 5 in. 5½ in. Each \$1.30 \$1.40 \$1.50

STUFFING BOX HEADS

83B6010—Cast brass, with polished steel rod. Fitted at stub ends for 7/8 in. steel rod couplings. With 10 inch stroke.

83B6011—Cast brass, with polished steel rod. Fitted at stub ends for 7/8 in. steel rod couplings. With 10 inch stroke.

83B6012—Cast iron. Used with copper float to control flow into tanks, etc.

83B6013—Cast iron. Used with copper float to control flow into tanks, etc.

83B6014—Cast iron. Used with copper float to control flow into tanks, etc.

83B6015—Cast iron. Used with copper float to control flow into tanks, etc.

83B6016—Cast iron. Used with copper float to control flow into tanks, etc.

83B6017—Cast iron. Used with copper float to control flow into tanks, etc.

83B6018—Cast iron. Used with copper float to control flow into tanks, etc.

83B6019—Cast iron. Used with copper float to control flow into tanks, etc.

83B6020—For windmill pump. Used in connection with a copper float. Diam., 1 in. 1½ in. 2 in. Weight, lbs. 1½ 2½ 3½ Each 45c 46c 56c

ENTERPRISE FLOAT VALVES

83B6021—Cast iron. Used with copper float to control flow into tanks, etc.

83B6022—Cast iron. Used with copper float to control flow into tanks, etc.

83B6023—Cast iron. Used with copper float to control flow into tanks, etc.

83B6024—Used with float valve. Wt., 3½ lbs. Size, 9¾x3 in. Each 95c

COPPER FLOATS

83B6025—Used with float valve. Wt., 3½ lbs. Size, 9¾x3 in. Each 95c

STUFFING BOX HEADS

83B6012—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6013—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6014—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6015—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6016—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6017—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6018—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6019—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6020—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6021—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6022—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6023—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6024—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6025—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6026—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6027—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6028—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6029—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6030—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6031—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6032—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6033—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6034—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6035—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6036—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6037—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6038—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6039—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6040—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6041—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6042—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6043—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6044—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6045—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6046—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6047—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6048—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6049—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6050—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6051—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6052—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6053—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6054—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6055—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6056—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6057—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6058—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6059—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6060—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6061—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6062—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6063—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6064—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6065—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6066—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6067—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6068—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

83B6069—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 7/8 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

</div

IMPROVED HACK-SAWS FOR CUTTING METALS

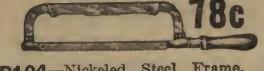
STANDARD HACK-SAW



35c

85B100—Nickel plated, strong steel frame. Rigid and strong. Blade tightens by a wing nut, and will face 4 ways. Weight, 10 oz. A good hack saw for general use—on the farm or in the shop. Our price is very low. Regular 60c value. With one 8-inch regular blade. Each **35c**

ADJUSTABLE FRAME HACK-SAW



78c

85B104—Nickel plated, malleable iron frame, wood handle. The blade can be faced four ways. Blade is tightened by turning wing nut at front end. A good low priced hack saw. Suitable for farm or home use or where the work is of a light nature. 25c retail value. Weight, 8 oz. With one 8-inch regular blade. Each **78c**

STAR HACK-SAW BLADES STANDARD BLADE

85B122—Genuine Star Hack-Saw Blades are uniform in quality. Made of hard and tough steel. Every blade perfect and will give the best of satisfaction. Quality and temper are just right, making a perfect blade. Cuts fast and smooth. Regular teeth, 14 to the inch. Weights, per dozen, 4 to 9 oz.

Length, inches	8	9	10	11	12
Per dozen	32c	35c	40c	48c	56c
Each	4c	5c	5c	6c	

HEAVY BLADE FOR POWER SAWS
85B123—Star Blade. Length, 12 in.; width, 5/8 in. Per Doz. **62c** Each **7c**
Average wt., per doz., 14 oz.

HARDWOOD TURNING SAW



90c

85B144—Has index on each handle to show just how far to turn. The friction is regulated by screws. Frame, complete, with one 18-inch blade. Average wt., 1% lbs. Each **90c**

85B145—Extra 18-inch blades. Average weight, 1 oz. Each **16c**

BALL BEARING COPING SAW



80c

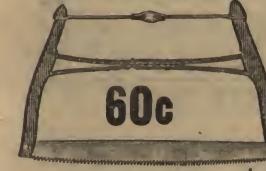
85B130—Millers' Falls Coping Saws. Handle and blade revolve, or can be held perfectly rigid. Nickel-plated steel frame. Depth, 4 1/2 in. Cocobola handle. Wt., each, 8 oz. With three blades, 6x3/32 in., for wood or metal. Each **80c**

85B131—Extra blades, width, 1/16 in. Per dozen **10c**

85B132—Extra blades, 3/32 in. Per dozen **35c**

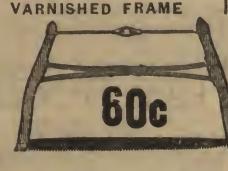
BUCK SAWS

HIGH GRADE BUCK-SAW POLISHED BLADE VARNISHED FRAME



60c

HIGH GRADE BUCK-SAW BLUED BLADE VARNISHED FRAME



60c

COMMON BUCK-SAW POLISHED BLADE RED FRAME



45c

85B148—Frame selected hard wood, varnished finish. Improved rod. Blade of extra spring steel, finely tempered. Length, 30 in.; thin back, standard V tooth, set and sharpened ready for use. Regular \$1.00 retail value. Wt., 4 lbs. Each **60c**

85B150—Frame selected hard wood, varnished finish. Improved rod. Blade of extra spring steel, blued, finely tempered. Length, 30 in.; thin back, standard V tooth, set and sharpenened ready for use. Regular \$1.00 retail value. Wt., 4 lbs. Each **60c**

85B152—With polished selected hardwood, painted red. Blade of extra steel, finely tempered. Length, 30 in. Standard V tooth, set and sharpened. Wt., 4 pounds. Each **45c**

FOOT POWER SCROLL SAWS

NEW ROGERS' SCROLL SAWS \$430



STAR SCROLL SAW
185B170
\$575

Genuine Millers' Falls, New Rogers' Scroll or Bracket Saw. With iron frame, neatly japanned and ornamented. The arms and pitman are of selected ash, and the spindles and arbors are of polished steel, carefully fitted to the bearings.

Has a cast iron drive wheel, for round belt, connected to the foot treadle with an ash pitman rod.

With each machine we include 12 saw blades, 1 sheet of designs and 3 drill points. Weight of machine, 37 pounds. Shipping weight, boxed, about 70 lbs. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

Shipping weight, boxed, 45 pounds. Each **\$4.30**

LAKESIDE CIRCULAR STEEL SAWS

CRUCIBLE STEEL
Patent Ground and Tempered

LAKESIDE SOLID
TOOTH CIRCULAR
SAWS REPRESENT
THE HIGHEST DE-
GREE OF EXCELLENCE
AND SUPERIORITY IN
SAWMAKING. Made
from the finest grade of
crucible steel, patent
ground and tempered,
and in toughness, elastic-
ity, workmanship, and
durability they are excelled
by none. Set and sharpened
ready for use. The greatest care
and diligence is taken in each pro-
cess of their manufacture, from the selec-
tion of the raw material to the smithing, ham-
mering, tempering, grinding, filing and setting.

(Cut-off Saw) (Rip Saw)

Each process is under the direct supervision of an expert, and before leaving the factory each saw is given a final test and inspection, thus securing the absolute perfection of our product. We list and carry in stock for immediate shipment saws in standard gauges and regular sizes of holes, but can supply special gauges and odd size holes as promptly as anyone. It usually takes from 10 to 30 days to make up special saws at the factory. Prices on larger saws and inserted tooth saws named on application. We save you from 25 to 50 per cent over usual retail prices.

LAKESIDE HIGH SPEED SAWS

185B260—Lakeside Circular Cut-off Saws.

185B261—Lakeside Circular Rip Saws.

Prices are for saws set and sharpened ready for use. Be sure to give size of hole.

Diam. Inches	Thickness Gauge	Size Hole Inches	Approximate Ship. Weight	Price Each
4	19	3/4	3 oz.	\$0.40
5	19	4/4	4 oz.	.55
6	18	2/4	7 oz.	.65
7	18	2/4	8 oz.	.75
8	18	2/4	12 oz.	.88
9	17	7/8	1 1/2 lb.	1.00
10	16	1	1 1/2 lb.	1.20
11	15	1	1 1/2 lb.	1.40
12	15	1	3 3/4 lb.	1.55

Diam. Inches	Thickness Gauge	Size Hole Inches	Approximate Ship. Weight	Price Each
14	14	1 1/8	3 1/2 lb.	\$1.85
16	14	1 1/8	6 1/2 lb.	2.28
20	13	1 1/8	10 1/2 lb.	3.32
22	12	1 1/8	12 1/2 lb.	4.00
24	10	1 1/8	16 1/2 lb.	4.75
28	10	1 1/8	20 lb.	5.60
30	10	1 1/8	23 1/2 lb.	6.50
32	10	1 1/8	28 lb.	7.35
34	9	1 1/8	33 lb.	8.40
36	9	1 1/8	43 lb.	9.45
			51 lb.	10.85

We carry in stock for prompt shipment, all sizes up to and including 36 in., but can furnish larger sizes up to 76 in. from factory, on short notice. Prices on application.

CIRCULAR SAW MANDRELS



185B285—High grade Circular Saw Mandrels with pulley on end as shown. Iron frame. Of the latest and most improved pattern; pulley on right hand side, with left hand threads. **WITH BABBITED BEARINGS.** Usual value \$4 to \$12 each. Note our Bargain Prices:

Size	Diam. Pulley In.	Face Pulley In.	Length Shaft In.	Diam. Shaft In.	Size Hole in Saw	Shipping Weight Lbs.	Each
1	2 1/2	3 1/2	16 1/2	1 1/8	1 1/8	18 1/2	\$2.75
2	3	3 1/2	19	1 1/8	1 1/8	21	3.25
3	3 1/2	4 1/2	21 1/2	1 1/8	1 1/8	31	3.75
4	4 1/2	5	24	1 1/8	1 1/8	38 1/2	4.20
5	4 1/2	5 1/2	26	1 1/8	1 1/8	39	4.70
6	6	6	28	1 1/8	1 1/8	45	5.15
7	5	6	30 1/2	1 1/8	1 1/8	45	5.60
8	6	6 1/2	32 1/2	1 1/8	1 1/8	60	7.00
9	7	7 1/2	37	1 1/8	1 1/8	70	8.40
10	8	8	41 1/2	1 1/8	1 1/8	96	9.35



185B276—Permits perfect accuracy in jointing teeth squarely and to equal lengths. Complete with reversible steel file. Iron frame. Can be used on both sides. Length, 5 in. Weight, 10 oz. Each 32c

SAW JOINTER
185B278—Joints saws perfectly square. Cast iron, white nickel finish. For 5 in. flat mill files. Wt., about 6 oz. Each 25c



CIRCULAR SAW MANDRELS WITH PULLEY IN CENTER

185B286—Latest and most improved pattern, with pulley in center, as illustrated, with left-hand threads on arbor to prevent flanges from working loose. Cast iron mountings. Steel shaft. Best quality Babbitt Bearings. Excellent values.

Size	Diam. Pulley Inches.	Face Pulley Inches.	Length Shaft Inches	Diam. Shaft Inches.	Size Hole in Saw	Ship. Weight Pounds.	Each.
1	2 1/2	3 1/2	1 1/2	1 1/8	1 1/8	19	\$2.75
2	3	4	2 1/2	1 1/8	1 1/8	24	3.25
3	3 1/2	4 1/2	3 1/2	1 1/8	1 1/8	31	3.75
4	4 1/2	5	4 1/2	1 1/8	1 1/8	42	4.20
6	5	6	5 1/2	1 1/8	1 1/8	50	5.15



185B277—Iron frame. Removable four-faced steel file. Length, 3 in. Nickel finish. Wt., about 6 oz. Each 18c

SAW SWAGE
185B280—Forged crucible steel, carefully tempered. Length, ft. 3 3/4. Width, in. 5 1/2. Weight, oz. 1.80. Each \$1.45

LAKESIDE BEST

LAKESIDE NARROW CHAMPION SAWS, 75c

LAKESIDE NARROW CHAMPION SAWS, 75c						
185B201—Lakeside Narrow Champion Saws. Polished steel, set and filed, ready for use. Width, 3 in. Length, ft. 5 1/2. Shipping weight, lbs. 4. Each 75c 85c						
Length, ft.	5	5 1/2	6	7		
Width, in.	3	3 1/2	4	4 1/2		
Shipping weight, lbs.	5/2	6	6 1/2	7		
Each	\$1.25	\$1.25	\$1.25	\$1.25		

LAKESIDE WIDE CHAMPION SAWS, \$1.40

LAKESIDE WIDE CHAMPION SAWS, \$1.40						
185B203—Lakeside Champion Tooth Saws. Length, ft. 5 1/2. Shipping weight, lbs. 6. Each 1.40						
Length, ft.	5	5 1/2	6	7		
Width, in.	3 1/2	4	4 1/2	5		
Shipping weight, lbs.	5 1/2	6	6 1/2	7		
Each	\$1.25	\$1.25	\$1.25	\$1.25		

LAKESIDE SPECIAL GROUND SAW, \$2.50

Arc Ground—Tuttle Tooth

LAKESIDE SPECIAL GROUND SAW, \$2.50						
185B205—Lakeside Special Saw, polished crucible steel, ground to a uniform thickness on cutting edge, with a uniform reduction in thickness from each end of the saw to the center, as well as from the teeth to the back. Cutting edge is 14 gauge, back is 16 gauge, and center of saw 19 gauge. A fast cutting saw requiring but little set. One of the finest made, usual value \$3.50 to \$4.25. (Prices do not include handles.)						
Length, feet	5	5 1/2	6	6 1/2		
Shipping weight, pounds	5 1/2	6	6 1/2	7		
Each	\$2.50	\$2.75	\$3.00	\$3.25		

LAKESIDE DIAMOND TOOTH SAW, \$1.50

LAKESIDE DIAMOND TOOTH SAW, \$1.50						
185B206—Lakeside Diamond Tooth Polished Steel Saws, thin back, ground to a true taper, four gauges thinner on back than on cutting edge. A fast easy-cutting saw. Regular length, feet						
Length, ft.	5	5 1/2	6	6 1/2		
Shipping weight, lbs.	5 1/2	6	6 1/2	7		
Each	\$1.50	\$1.65	\$1.80	\$1.80		

LAKESIDE PERFORATED LANCE TOOTH, \$1.70

LAKESIDE PERFORATED LANCE TOOTH, \$1.70						
185B208—Lakeside Perforated Lance Tooth Saws. Polished steel. Thin back; ground to a true taper, four gauges thinner in the back than in the cutting edge. Will cut rapidly and easily, and will not bind in the timber. Usual value \$2.50 to \$3.00 retail value. (Price without handles.)						
Length, ft.	5	5 1/2	6	6 1/2		
Shipping weight, lbs.	6	6 1/2	7 1/4	8 1/2		
Each	\$1.70	\$1.85	\$2.00	\$2.15		

LAKESIDE CHAMPION ONE-MAN SAWS, \$1.00

LAKESIDE CHAMPION ONE-MAN SAWS, \$1.00						
185B211—Lakeside One-Man Saws, with Champion Tooth, taper ground, two gauges thinner on back than on tooth edge. Polished steel. Regular retail value, \$1.50 to \$2.50. (Prices include one supplementary handle.)						
Length, ft.	3	3 1/2	4	4 1/2		
Shipping weight, lbs.	3 1/2	4 1/2	5	5 1/2		
Each	\$1.00	\$1.15	\$1.35	\$1.50		

ECLIPSE CORDWOOD SAWS

185B264—These popular low speed saws are giving excellent satisfaction on pole sawing and cordwood machines, and for similar rough work. They have our Special Cordwood Cross-cut Tooth, and are made from better steel than most of the cordwood saws now on the market, and are correctly tempered, filed and set ready for use. The greatest care and diligence is taken in each process of their manufacture, from the selection of the raw material to the smithing, hammering, tempering, grinding, filing and setting.

Diam. Inches	Thickness Gauge	Size Hole Inches	Size of hole in saw, inches

<tbl_r cells="4" ix="3" maxcspan="1" maxrspan="1" used

FINE VALUES IN SAW SETS, MITRE BOXES, SAW VISSES, ETC.

LAKESIDE SAW SET



68c

85B310—Our Lakeside Saw Set with eccentric anvil and indicator, giving the number of teeth to the inch, enables you to always hold the set in your saw. The lever is placed below the body of the Saw Set where it is operated by the fingers only, doing away with the motion of the entire hand. For all kinds of hand saws. The Revolving anvil covers the required bevel and length of all saw teeth, ranging from 4 to 16 points to the inch. The figures on the dial indicate the number of teeth to the inch.

Highly nickel-plated. Hardened anvil and plunger, tempered steel spring. Length, 7 in. Malleable handles. Weight, 18 oz. Each.....

68c

TANTOR'S POSITIVE SAW SET



58c

85B312—A popular set. Made of steel, nickel plated. The face of the anvil opposite the punch determines the set of the saw. The anvil has ten faces, divided into sections marked F, M, and C, indicating the faces to be used in setting fine, medium and coarse teeth. Length, 6 in. Weight, 8 oz. Regular 75c retail value. Each.....

58c

MORRILL'S SPECIAL SAW SET



75c

85B315—An improvement over the popular No. 95. Suitable for all kinds of hand saws. The under handle is the lever handle, giving a firm, steady grip. Gauge screw is fitted with a locknut. Dial numbered from 4 to 14. Malleable iron handles. Length, 6 in. Weight, 11 oz. Each.....

35c

MORRILL'S PATTERN SAW SET



25c

Weight, 10 oz. Each.....

GENUINE MORRILL'S SAW SETS FOR LARGE SAWS



58c

85B324—Size 3. Length, 9 1/4 in. For single tooth, cross-cut and circular saws from 20 to 14 gauge. Wt., 1 1/4 lbs. Each.....

95c

85B325—Size 4. Length, 9 1/4 in. For Champion or M-tooth cross-cut saw, from 22 to 14 gauge. Wt., 1 1/4 lbs. Each.....

95c

85B328—Morrill's No. 5 Saw Set, length, 15 in. for circular and other saws, 14 to 6 gauge. Wt., 3 1/4 lbs. Each.....

\$1.68

85B326—Size 3, for saws from 20 to 14 gauge. Wt., 1 1/4 lbs. Each.....

58c

85B327—Size 4, for saws 22 to 14 gauge. Wt., 1 1/4 lbs. Each.....

58c

AIKIN PATTERN SAW SET



58c

85B330—Hammer Saw Set. Forged steel, length, 3 1/4 in. Weight, 9 oz. Each.....

38c

UNIFORM SAW SET FOR FOOT TREADLE



58c

85B336—An adjustable spring hammer gives each tooth an equal blow. Adjustable for angle of set. Cast iron frame with steel plunger and anvil. White nickel finish. Height, about 7/8 in. Wt., 1 1/2 lbs. Without treadle. Each.....

1.10

185B120—Goodell-Pratt machine for the accurate boring of dowel holes. The illustration shows the graduation by which the height of the gauge block can be readily determined. This gauge block is provided with holes 1/8, 5/16, 3/8, 7/16 and 1/2 in., and can be set at any desired point. The face of the machine is provided with a graduated strip running 7 in. each direction from the center. \$5.00 retail value. Shipping wt., 14 lbs. Each.....

4.00

GENUINE WHITING PATTERN SAW SET



58c

85B332—For cross-cut saws only. Forged steel. A popular tool with many lumbermen. Length, 3 1/4 in. Wt., 3 oz. Each.....

58c

WHITING PATTERN SAW SET

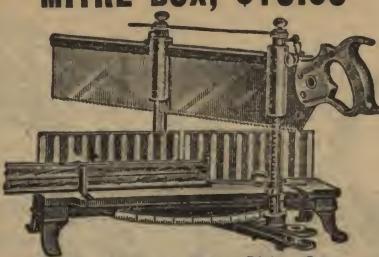


58c

85B333—For cross cut saws only. Forged steel, tempered and polished. Length, 3 1/2 in. A popular tool at a low price. Weight, 3 oz. Each.....

29c

STANLEY PERFECT MITRE BOX, \$10.50



With 28x5-inch Henry Diston Saw.

185B370—Stanley's No. 338. Used for sawing square ends on any angles, or duplicate lengths from boards, moldings, etc. Built with the greatest care, strong and durable. It embodies many exclusive and important features which appeal strongly to the user. Back and Frame, graduated Quadrant and Swivel Arm bearing are in one piece, accurately machined. Quadrant is accurately graduated. Detachable malleable Legs. No play in Swivel Arms. Can be clamped at any point. Swivel Arm has Second Socket for front saw guide, permitting use of a shorter saw or a much longer stroke with the regular saw. Saw Guide Uprights are steel rods, holding the saw guide cylinders, and may be adjusted to hold the saw without side play. Automatic Catches at the top of saw guides. Movable Stops for regulating depth of cut. A Removable Tie Bar gives great rigidity. Two Adjustable Spurs in the back hold work from slipping. Narrow Opening in the back of the frame is especially valuable for narrow work. Iron frame. Japanned finish. Length, 20 1/2 in. Width, 4 1/2 in. Capacity, Right Angle, 9 1/2 in. Mitre 45, 6 1/2 in.; 30 degrees without guide, 4 1/2 in. With 28x5 in. fitted Henry Diston saw. Ship. Wt., 35 lbs. Each.....

\$10.50

GOODELL STEEL MITRE BOX \$9.90



GOODELL MFG CO.
GREENFIELD, MASS.

Made entirely of Wrought Steel. Will not break—a feature which will be appreciated by all mechanics. Has Steel bottom plate with angular serrations. The arms can be instantly set and locked at any angle. Has a graduated arc in front, with the various degrees plainly marked. Fitted with automatic stops to hold up the saw, allowing the operator to use both hands in placing the work. The guides are made long, thus holding the saws very steadily when raised to the extreme height. Will take work 10 1/2 in. wide at right angles, and 7 1/4 in. at mitre. Total length of bed, 21 in. A strictly first-class mitre box. Complete with extra angle attachment by which the angle can be increased above 45 degrees, and a gauge, for sawing duplicates. Prices include a high grade saw. Saws are measured the extreme length of the blade, not by the toothed edge.

185B366—With Saw 26 by 4 in. Ship. Weight, 26 lbs. Each.....

\$9.90

185B367—With Saw 28 by 5 in. Ship. Weight, 30 lbs. Each.....

\$10.95

185B368—With Saw 30 by 5 in. Ship. Weight, 35 lbs. Each.....

\$11.15

185B369—With Saw 30 by 6 in. Ship. Weight, 35 lbs. Each.....

\$12.60

LAKESIDE SAW FILING GUIDE AND VISE

\$1.55

185B354—Has a rubber faced jaw, which prevents noise and vibration and a ball and socket joint connecting vise and clamp which allows easy adjustment. The guide can be set at any position to secure any angle, pitch, or depth. Enables any one without previous experience to file a saw accurately. Length of jaw, 10 1/2 in. Steel guide bar, 16 in. Finely finished. Shipping weight, 10 1/2 lbs. Complete with file and directions. Each.....

\$1.55

SAW FILING GUIDE

Slotted to slip on saw when clamped in vice.

185B356—Can be adjusted to file at any angle, pitch or depth desired. Made entirely of metal. The index is so fastened to the bar that when the saw is turned in the vice the same angle is obtained in filing the opposite side. Nicely finished in white; nickel plated. Price is for guide and file only (vice is not included). Weight, 2 1/2 lbs. Each.....

.95c

SAW VISE



25c

185B340—Japanned iron. Width of jaws, 9 in. Weight, 3 1/4 lbs. Each.....

.25c

SAW VISE



52c

185B343—Adjustable iron. Ball and socket saw clamp. Width of jaws, 9 in. Wt., 8 1/2 lbs. Each.....

.42c

SAW VISE



58c

185B342—Japanned iron, with bench clamp, adjustable to any angle. Jaws are ground to an accurate fit. Width, 9 in. Weight, 6 lbs. Each.....

.42c

SAW VISE

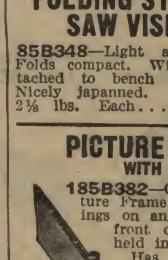


45c

185B345—Size 1. Wentworth's Cast Iron Vise, with rubber cushion jaws. Width of jaw, 10 1/2 in. Made to screw on bench. Weight, 5 lbs. Each.....

.45c

FOLDING STEEL SAW VISE



.65c

185B349—Wrought steel, lever clamping, rubber faced jaws. Width, 12 in. Clamps to bench. Japanned and nickel plated. Shipping wt., 2 1/2 lbs. Each.....

.65c

LATEST AND BEST



.62c

185B348—Light and very strong. Folds compact. Width, 14 in. Attached to bench by drive hooks. Nicely japanned. Shipping weight, 2 1/2 lbs. Each.....

.62c

PICTURE FRAME MACHINE WITH 26-INCH BACK SAW



.975

185B382—Combined Mitre Machine and Picture Frame Vise. Will securely hold mouldings on any shape frame, or back as desired, and can be held in a horizontal or vertical position. Has a rule and measure gauge to measure and gauge from either side of the machine. Swivel and tilting attachments permit adjusting to any position. Packed complete with a 26-in. extra quality mitre saw. Wt., 20 lbs. Shipping wt., 36 lbs. Price.....

.975

PICTURE FRAME VISE



\$3.75

185B383—Has swivel and tilting attachment. Will hold any kind of molding up to 4 inches. Meets all the demands of a frame vise, carefully made and will prove satisfactory. Ship. wt., 12 lbs. \$3.00 retail value. Each.....

\$3.75

Montgomery Ward & Co. Chicago

891

DOWELING JIG, \$1.40



185B386—For quickly and accurately boring Dowel Holes in edge, end or surface of work. Capacity up to 3 in. Also a good guide for mortising. With five steel guides, length, 1 1/4 in. One each, 1/4, 5/16, 3/8, 7/16, 1/2 in. With depth gauge. Made entirely of metal. Nickel plated. Shipping weight, 1 1/2 lbs. Each.....

\$1.40

BENCH STOP



185B390—Screw adjusting. Reversible steel plate may be raised up to 1 1/2 in. Weight, 9 oz. Each.....

.27c

QUICK SET BENCH STOP



185B391—Strong and rigid. Instantly adjusted with a screw driver. Reversible head. Made of steel. Nicely finished. Weight, 13 oz. Each.....

.33c

BENCH HOOK



185B395—Made of iron with steel jaw and spring. Wt., pair, 3 1/2 lbs. Per pair (2) .. .70c

.40c

85B392



185B392—Adjustable. Reversible four-faced head. Made of steel. Wt., 8 oz. Each.....

.40c

BENCH BRACKET, STANLEY NO. 203



185B398—Made with a hook to go through any 1 in. hole bored in side of bench and will clamp boards, etc., in any desired position. A pair of these clamps will be found very convenient. Length, 4 1/2 in. Cast Iron body, japanned. Nickel plated steel clamp screws. Wt., 1 lb. Each.....

.23c

WOOD TRIMMER



185B385—A wonderful little machine for trimming wood readily and accurately and smoothly. Will cut square, bevel or mitre joints, leaving a fine smooth surface. Will cut off the ends of siding, flooring, casings, moldings, etc., at any angle. Strong and well made, with high grade steel cutting knives. Length of cut, 7 in. Height of cut, 4 in. Shipping weight, 82 lbs. Each.....

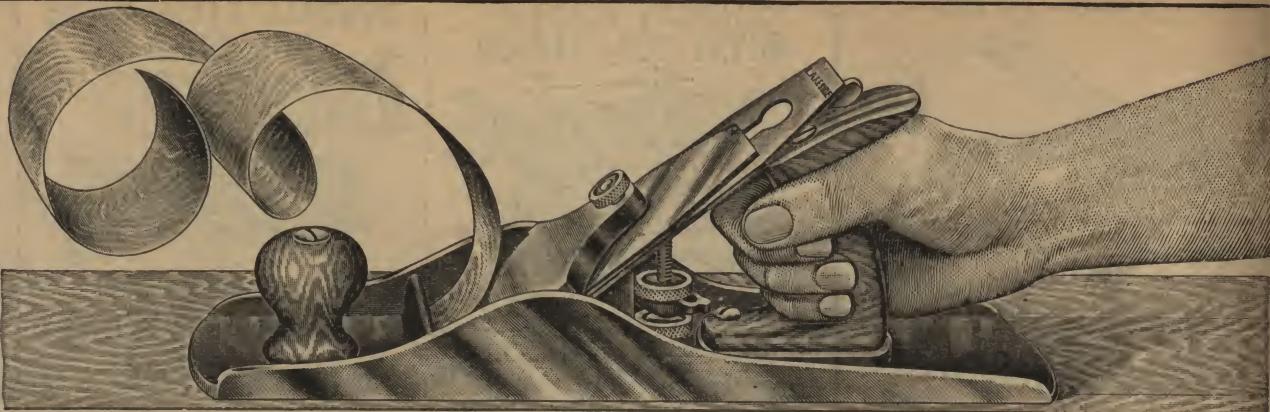
\$11.75

LAKESIDE PERFECT BENCH PLANES

LAKESIDE IRON PLANES

Lakeside Bench planes are strictly high grade, and finely finished. Every care is taken to preserve their high standard of excellence, and to make them reliable tools that shall be unsurpassed. Cutters are of best quality tool steel, in just the right thickness. They are thin enough to be easily sharpened by honing or grinding, and thick enough to totally overcome all tendency to chatter in the hardest woods. This feature is a distinct advantage, and one fully appreciated by the expert workman. Cutter is adjustable endwise and sidewise.

Each plane is carefully inspected and tested and we offer our Lakeside planes to you with the full assurance that there are no better tools on the market. You take no risk when you buy a Lakeside plane. We know you will be pleased.



PERFECT LAKESIDE X IRON PLANES

WITH IMPROVED LOCKING LEVER ADJUSTMENT. BEST STEEL CUTTERS



Note—Smooth and Grooved Bottom, both the same price.

Style of Plane	Length in.	Width Cutter	Average Wt., lbs.	Smooth Bottom	Grooved Bottom	Price each
Smooth No. X 3	8	1 1/4	3	85B420	85B428	\$1.25
Smooth No. X 4	9	2	3 1/2	85B421	85B429	1.40
Jack No. X 5	14	2	4 1/4	85B422	85B430	1.60
Jack No. X 5 A	15	2 1/4	4 1/2	85B423	85B431	1.80
Fore No. X 6	18	2 1/2	6 1/2	85B424	85B432	2.00
Jointer No. X 8	23 1/2	2 1/2	9 1/4	85B425	85B433	2.75

EXTRA PLANE IRONS OR CUTTERS

To fit planes shown above. Always give catalogue number and size of plane in which the iron is to be used. Steel cutter.

85B435—Single Irons.	Wt. 5 to 8 oz.	Size 1 1/4 in. 18c	2 1/2 oz. 19c	2 1/2 oz. 20c	2 1/2 oz. 22c	85B436—Double Irons.	Wt. 8 to 12 oz.	Size 1 1/4 in. 31c	2 1/2 oz. 33c	2 1/2 oz. 34c	2 1/2 oz. 35c	2 1/2 oz. 40c
Each .17c	18c	19c	20c	22c	Each .31c	33c	34c	35c	40c			

NEW BUCKEYE PLANES

SMOOTH BOTTOM



Cap plate is removable with the bit. Bit can be instantly replaced to cut the same thickness of shaving. The single adjusting screw has four actions. Adjusts the cutter up and down, and to right and left. Steel cutter will not chatter. Will clean up veneer work perfectly. Planes are made of cast iron, Japanned finish, with polished sides. Nickel plated screw and cap. With varnished hardwood handles.

Style of Plane	Length in.	Cutter in.	Weight lbs.	Number	Each
Smooth Plane	9 1/2	2	2 1/2	85B457	\$1.65
Jack Plane	14	2	4	85B458	2.00
Fore Plane	18	2 1/4	6	85B459	2.50

BAILEY IRON PLANES \$1.38

SMOOTH OR GROOVED BOTTOM

Made by the Stanley Rule and Level Co.

English steel cutters, adjustable endwise and sidewise.

Smooth or grooved bottom both the same price.

Style of Plane	Length in.	Width Cutter	Average Wt., lbs.	Smooth Bottom	Grooved Bottom	Price each
Smooth No. 2	7	1 1/4	2 1/2	85B480	85B481	\$1.38
Smooth No. 3	8	1 1/4	3 1/2	85B481	85B490	1.47
Smooth No. 4	9	2	4	85B482	85B491	1.61
Smooth No. 4 1/2	10	2	5	85B483	85B492	1.85
Jack No. 5	14	2	5	85B484	85B493	2.07
Jack No. 5 A	15	2 1/4	6 1/2	85B485	85B494	2.38
Fore No. 6	18	2 1/2	7 1/2	85B486	85B495	2.70
Jointer No. 7	22	2 1/2	8 1/4	85B487	85B496	3.23
Jointer No. 8	24	2 1/2	9 1/4	85B488	85B497	4.20

LAKESIDE WOOD PLANES WITH IRON TOPS

WITH SCREW AND LATERAL ADJUSTMENT. BEST QUALITY CUTTERS

SPLENDID VALUES



Style of Plane	Length in.	Width Cutter in.	Average Wt., lbs.	Number	Price each
Smooth No. 2 1/2	8	2 1/4	2 1/2	85B510	\$0.75
Smooth No. 3 1/2	8 1/2	2 1/4	3 1/2	85B511	.98
Jack No. 2 1/2	15	2 1/4	3 1/2	85B512	1.00
Jack No. 2 1/2	15	2 1/4	4 1/2	85B513	1.00
Fore No. 2 1/2	20	2 1/4	5 1/2	85B514	1.15
Jointer No. 3 1/2	24	2 1/4	6 1/4	85B515	1.20
Jointer No. 3 1/2	28	2 1/2	7 1/4	85B516	1.30

EXTRA CUTTERS OR PLANE IRONS

Fitting Lakeside Wood Bottom

Planes, 85B510 to 85B524. Always give the catalogue number and size of plane in which the iron is to be used.

85B528—Single Steel Irons. Average weight, 4 to 7 oz.

Size .1 1/4 in. 17c 18c 20c 22c 28c

85B529—Double Irons. Average weight, 7 to 11 oz.

Size .1 1/4 in. 2 1/2 oz. 2 1/2 oz. 2 1/2 oz. 2 1/2 oz.

85B530—Single Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 30c 30c 30c 30c 30c

85B531—Double Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 33c 33c 33c 33c 33c

85B532—Single Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 37c 37c 37c 37c 37c

85B533—Double Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 39c 39c 39c 39c 39c

85B534—Single Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 42c 42c 42c 42c 42c

85B535—Double Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 45c 45c 45c 45c 45c

85B536—Single Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 48c 48c 48c 48c 48c

85B537—Double Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 51c 51c 51c 51c 51c

85B538—Single Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 54c 54c 54c 54c 54c

85B539—Double Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 57c 57c 57c 57c 57c

85B540—Single Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 60c 60c 60c 60c 60c

85B541—Double Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 63c 63c 63c 63c 63c

85B542—Single Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 66c 66c 66c 66c 66c

85B543—Double Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 69c 69c 69c 69c 69c

85B544—Single Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 72c 72c 72c 72c 72c

85B545—Double Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 75c 75c 75c 75c 75c

85B546—Single Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 78c 78c 78c 78c 78c

85B547—Double Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 81c 81c 81c 81c 81c

85B548—Single Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 84c 84c 84c 84c 84c

85B549—Double Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 87c 87c 87c 87c 87c

85B550—Single Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 90c 90c 90c 90c 90c

85B551—Double Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 93c 93c 93c 93c 93c

85B552—Single Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 96c 96c 96c 96c 96c

85B553—Double Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 99c 99c 99c 99c 99c

85B554—Single Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 102c 102c 102c 102c 102c

85B555—Double Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 105c 105c 105c 105c 105c

85B556—Single Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 108c 108c 108c 108c 108c

85B557—Double Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 111c 111c 111c 111c 111c

85B558—Single Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 114c 114c 114c 114c 114c

85B559—Double Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 117c 117c 117c 117c 117c

85B560—Single Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 120c 120c 120c 120c 120c

85B561—Double Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 123c 123c 123c 123c 123c

85B562—Single Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 126c 126c 126c 126c 126c

85B563—Double Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 129c 129c 129c 129c 129c

85B564—Single Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 132c 132c 132c 132c 132c

85B565—Double Steel Irons. Average weight, 5 to 11 oz.

Size .1 1/4 in. 135c 135c 135c 135c 135c

85B566—Single Steel Irons. Average weight, 5 to 11 oz.

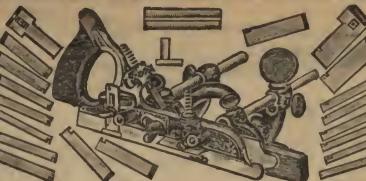
Size

TRAUT'S ADJUSTABLE
PLOW NO. 46
\$3.75



COMBINATION PLANE STANLEY'S NO. 45

85B695 Combines seven tools in one and consists of iron main stock, and a sliding section so arranged that cutters of different widths can be used. Each plane is fitted with an adjustable fence, a depth gauge, and spurs for working across the grain. Can be used either right or left hand. This plane embraces: A beading and center beading plane, a rabbet and fillister plane, a dado, a plow, a match plane, a sash plane and a slitting plane. The face can be adjusted for center beading and for making a bead five inches from the edge of the board if desired. Each plane is accompanied by seven beading tools ($\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in.) ten plow and dado pits ($\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{9}{16}$, $\frac{5}{8}$ in.); a slitting blade; a tonguing tool, $\frac{3}{4}$ in.; a sash tool, $\frac{1}{2}$ in. and Fillister Cutter, $\frac{1}{4}$ in. Wt., $\frac{8}{3}$ lbs. Nickel-plated finish. Complete (with 21 tools), each \$3.75



85B696 Stanley No. 46 Iron adjustable Dado plow and Fillister plane. Two sections, 11 steel cutters, 8 steel plow bits, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. $\frac{9}{16}$, $\frac{5}{8}$ in. Beading Cutters, 1 pair, $\frac{1}{4}$ in. Weight, 5 lbs. Nickel finish. \$3.75

85B696 Extra steel cutters, per set (11 pieces). Wt., $\frac{1}{4}$ lbs. Each \$1.55

LAKESIDE TONGUING AND GROOVING PLANE \$1.55



Iron body. Two separate steel cutters. The fence can be swung around, covering one of the cutters and acting as a guide for grooving an exact match for the tongue. Two sizes. Nickel plated. Wt., $2\frac{1}{2}$ lbs. **85B668** For $\frac{3}{8}$ to $\frac{1}{2}$ boards. Each \$1.55

85B669 For $\frac{3}{8}$ to $\frac{1}{2}$ boards. Each \$1.55

85B698 Steel Cutters for Holes and Rounds. Each \$1.55

85B699 Nosing Tool, $1\frac{1}{4}$ -inch steel cutter. Wt., 2 lbs. Each .90

RABBIT AND BLOCK PLANE \$1.00

HAND BEADER 68c

ROUTER PLANE \$1.15 Closed Throat

ROUTER PLANE \$1.45 Open Throat

LAKESIDE BULL-NOSE RABBIT PLANE 23c

SIDE RABBIT PLANE, 70c

VEENEER SCRAPER \$1.65

85B675 Stanley No. 140. Iron Plane. Has a detachable side to change it from a Block Plane to a Rabbit Plane or vice versa. Length, 7 in. with $1\frac{1}{2}$ in. steel skew cutter. Wt., $1\frac{1}{2}$ lbs. Each \$1.00

85B679 Extra blank steel cutter. Wt., 2 oz. Each .50

85B678 Stanley No. 66. For beading, reeding, or fluting straight or irregular surfaces and for all kinds of light routing. Nickel-plated iron stock with seven steel cutters. Wt., $1\frac{1}{2}$ lbs. Each \$1.00

85B680 Stanley No. 71. To smooth the bottom of depressions below the general surface of any woodwork. Nickel-plated iron stock, with steel bits ($\frac{1}{8}$, $\frac{3}{16}$ in. and one pointed). Wt., $2\frac{1}{2}$ lbs. Each \$1.15

85B681 Stanley No. 71. Iron Plane. Nickel-plated stock with steel bits, $\frac{1}{8}$, $\frac{3}{16}$ in. and one pointed. Complete with an attachment which can be substituted for the collar that holds the cutter when the work requires a closed throat. Wt., $2\frac{1}{2}$ lbs. Each \$1.45

85B682 Wood Nosing Plane, for steps. With two steel cutters. Sizes, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$ and $\frac{3}{8}$ in. Wt., $1\frac{1}{4}$ lbs. Each (give size) .90c

85B683 Wood Bead Plane. Side beads, single boxed. Steel cutter. Sizes, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$ and $\frac{1}{2}$ in. Wt., $1\frac{1}{4}$ lbs. Each .98c

85B684 Wood Jack Rabbit Plane. Size of steel cutter, $1\frac{1}{2}$ in. With handle and two side cutters. Wt., $2\frac{1}{2}$ lbs. Each \$1.40

85B685 Iron Rabbit Plane. Length, 4 in. width of steel cutter, 1 in. Adjusts to be used in beading the edges of matched boards. Packed in neat box. Wt., $1\frac{1}{2}$ lbs. Each \$2.30

85B686 Iron Rabbit Plane. Length, 4 in. Wt., $1\frac{1}{2}$ lbs. Each .70c

85B687 Stanley No. 98. Iron Plane for side rabbing and trimming dados, mouldings and grooves of all sorts. Steel cutter. Will work close up into corners. Length, 4 in. Wt., 10 oz. Each right hand .70c

85B688 Stanley Iron Side Rabbit Plane, No. 99. Steel cutter. Left hand .70c

85B689 Extra steel cutter for above. $\frac{1}{2}$, $\frac{3}{8}$, $\frac{5}{16}$ or 1 in. Wt., about $1\frac{1}{2}$ oz. Each .15c

BEECHWOOD BENCH PLANES

SMOOTH

JACK

FORE

Made of selected beechwood. With best quality crucible steel cutters. With lignum vitae starts.

85B610 Smooth Plane. Length, 8 in.; 2 in. double iron. Wt., 2 lbs. Each .58c

85B611 Jack Plane. Length, 16 in.; 2 $\frac{1}{2}$ in. double iron. Wt., 4 $\frac{1}{2}$ lbs. Each .65c

85B612 Fore Plane. Length, 22 in.; 2 $\frac{1}{2}$ in. double iron. Wt., 5 lbs. Each .10

85B613 Jointer Plane. Length, 26 in.; 2 $\frac{1}{2}$ in. double iron. Wt., 6 $\frac{1}{2}$ lbs. Each .15

SET OF FOUR BEECHWOOD PLANES

85B615 Consisting of Smooth, Jack, Fore and Jointer Plane. Wt., 18 $\frac{1}{2}$ lbs. Per set .34c

PLANE IRONS

Plane Irons, made from best cast steel, carefully tempered. For beechwood planes. Wt., 7 to 20 oz.

85B616 Single irons.

Size, in. .1 $\frac{1}{2}$ 1 $\frac{1}{2}$ 2

Each .45c .46c .48c

Size, in. .2 $\frac{1}{2}$ 2 $\frac{1}{2}$ 2 $\frac{1}{2}$

Each .50c .52c .55c

Size, in. .2 $\frac{1}{2}$ 2 $\frac{1}{2}$ 2 $\frac{1}{2}$

Each .34c .37c .42c

DOOR TRIM PLANE BETTER THAN CHISELS \$2.10

STANLEY DOVETAIL PLANE \$4.90

CUTTING TONGUE

CUTTING SPOKE

85B670 Stanley's No. 444. Used for making a tongue and groove for a dovetail joint. The only tool on the market which accomplishes this satisfactorily. Cuts any size groove and tongues with sides flaring 20 degrees, where width of neck is not over $\frac{1}{4}$ inch, and depth of groove not over $\frac{3}{4}$ inch. Cuts them with parallel or tapering sides. Easy to operate. Complete directions included. Finely nickel-plated iron, with steel cutters. Length, 9 in. Packed in neat box. Weight, 6 lbs. \$6.00 value. Each \$4.90

85B684 Stanley's No. 171. Used for making mortises for butts, strike plates, etc., up to $\frac{3}{4}$ deep, by 3 in. wide. Serves also as router plane. Cushioned adjustable cutter. Regulating fence. Japaned iron stock. Nickel-plated trimmings. Rosewood handles. Three forged steel cutters. Length, 11 in. Wt., $3\frac{1}{2}$ lbs. \$2.75 value. Each \$2.10

COMBINATION PLANE WITH 15 CUTTERS \$3.50

LAKESIDE CIRCULAR PLANE

STANLEY'S CIRCULAR PLANE, \$2.15

85B640 Lakeside Improved Iron Circular Plane. The adjustment is easy and rapid. The flexible steel face can be quickly changed to any required arc, convex, concave, or straight. It is equal in quality and finish to the best. Steel cutter, $1\frac{1}{2}$ in. Weight, 3 $\frac{1}{2}$ lbs. Each \$1.80

85B642 Stanley No. 113. Iron Circular Plane. The steel face is flexible, and by means of knob at end of stock, concave or convex surfaces can be worked as easily as straight ones. Width of steel cutter, $1\frac{1}{2}$ in. Weight, 3 $\frac{1}{2}$ lbs. Each \$2.15

85B643 Stanley No. 20. The ends of the flexible face are fixed to the one-piece frame, and the large adjusting screw applied at the center, making a plane having great rigidity and accuracy of adjustment. Width of steel cutter, $1\frac{1}{4}$ in. Iron nickel-plated finish. Weight, 3 $\frac{1}{2}$ lbs. Each \$2.95

85B644 Stanley No. 50. Used as plow, dado, beading and matching plane on light work. FURNISHED WITH 15 STEEL CUTTERS. Plow and Dado Cutters, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. Beading Cutters, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. One pair, $\frac{1}{4}$ in. Weight, 4 lbs. \$5.00 value. Each \$3.50

85B645 Stanley No. 50. Used as plow, dado, beading and matching plane on light work. FURNISHED WITH 15 STEEL CUTTERS. Plow and Dado Cutters, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. Beading Cutters, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. One pair, $\frac{1}{4}$ in. Weight, 4 lbs. \$5.00 value. Each \$3.50

85B646 Stanley No. 50. Used as plow, dado, beading and matching plane on light work. FURNISHED WITH 15 STEEL CUTTERS. Plow and Dado Cutters, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. Beading Cutters, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. One pair, $\frac{1}{4}$ in. Weight, 4 lbs. \$5.00 value. Each \$3.50

85B647 Stanley No. 50. Used as plow, dado, beading and matching plane on light work. FURNISHED WITH 15 STEEL CUTTERS. Plow and Dado Cutters, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. Beading Cutters, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. One pair, $\frac{1}{4}$ in. Weight, 4 lbs. \$5.00 value. Each \$3.50

85B648 Stanley No. 50. Used as plow, dado, beading and matching plane on light work. FURNISHED WITH 15 STEEL CUTTERS. Plow and Dado Cutters, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. Beading Cutters, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. One pair, $\frac{1}{4}$ in. Weight, 4 lbs. \$5.00 value. Each \$3.50

85B649 Stanley No. 50. Used as plow, dado, beading and matching plane on light work. FURNISHED WITH 15 STEEL CUTTERS. Plow and Dado Cutters, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. Beading Cutters, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. One pair, $\frac{1}{4}$ in. Weight, 4 lbs. \$5.00 value. Each \$3.50

85B650 Stanley No. 50. Used as plow, dado, beading and matching plane on light work. FURNISHED WITH 15 STEEL CUTTERS. Plow and Dado Cutters, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. Beading Cutters, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. One pair, $\frac{1}{4}$ in. Weight, 4 lbs. \$5.00 value. Each \$3.50

85B651 Stanley No. 50. Used as plow, dado, beading and matching plane on light work. FURNISHED WITH 15 STEEL CUTTERS. Plow and Dado Cutters, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. Beading Cutters, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. One pair, $\frac{1}{4}$ in. Weight, 4 lbs. \$5.00 value. Each \$3.50

85B652 Stanley No. 50. Used as plow, dado, beading and matching plane on light work. FURNISHED WITH 15 STEEL CUTTERS. Plow and Dado Cutters, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. Beading Cutters, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. One pair, $\frac{1}{4}$ in. Weight, 4 lbs. \$5.00 value. Each \$3.50

85B653 Stanley No. 50. Used as plow, dado, beading and matching plane on light work. FURNISHED WITH 15 STEEL CUTTERS. Plow and Dado Cutters, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. Beading Cutters, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. One pair, $\frac{1}{4}$ in. Weight, 4 lbs. \$5.00 value. Each \$3.50

85B654 Stanley No. 50. Used as plow, dado, beading and matching plane on light work. FURNISHED WITH 15 STEEL CUTTERS. Plow and Dado Cutters, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. Beading Cutters, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. One pair, $\frac{1}{4}$ in. Weight, 4 lbs. \$5.00 value. Each \$3.50

85B655 Stanley No. 50. Used as plow, dado, beading and matching plane on light work. FURNISHED WITH 15 STEEL CUTTERS. Plow and Dado Cutters, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. Beading Cutters, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. One pair, $\frac{1}{4}$ in. Weight, 4 lbs. \$5.00 value. Each \$3.50

85B656 Stanley No. 50. Used as plow, dado, beading and matching plane on light work. FURNISHED WITH 15 STEEL CUTTERS. Plow and Dado Cutters, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. Beading Cutters, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. One pair, $\frac{1}{4}$ in. Weight, 4 lbs. \$5.00 value. Each \$3.50

85B657 Stanley No. 50. Used as plow, dado, beading and matching plane on light work. FURNISHED WITH 15 STEEL CUTTERS. Plow and Dado Cutters, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. Beading Cutters, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. One pair, $\frac{1}{4}$ in. Weight, 4 lbs. \$5.00 value. Each \$3.50

85B658 Stanley No. 50. Used as plow, dado, beading and matching plane on light work. FURNISHED WITH 15 STEEL CUTTERS. Plow and Dado Cutters, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. Beading Cutters, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. One pair, $\frac{1}{4}$ in. Weight, 4 lbs. \$5.00 value. Each \$3.50

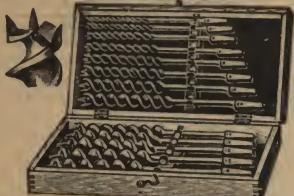
85B659 Stanley No. 50. Used as plow, dado, beading and matching plane on light work. FURNISHED WITH 15 STEEL CUTTERS. Plow and Dado Cutters, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. Beading Cutters, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. One pair, $\frac{1}{4}$ in. Weight, 4 lbs. \$5.00 value. Each \$3.50

85B660 Stanley No. 50. Used as plow, dado, beading and matching plane on light work. FURNISHED WITH 15 STEEL CUTTERS. Plow and Dado Cutters, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\$

ATTRACTIVE AUGER BIT SETS AND CARPENTERS' TOOLS

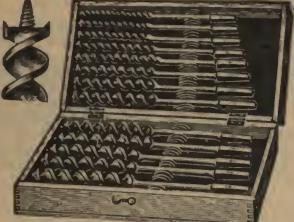
LAKESIDE AUGER BIT SET

FULL SET OF 13



85B980—13 Lakeside extra quality Double Spur Auger Bits, Jennings' pattern. With deep, sharp lips and spurs, and accurately threaded screw. Made of finest steel, well tempered and finely polished. One each, by sixteenths, from $\frac{1}{16}$ to 1 inch size. Put up in a neatly varnished hardwood box with hinged cover. Each bit is held in place by a brass spring clip. An excellent set for all around use. Average weight, 4 lbs. Per set \$2.60

STANDARD AUGER BIT SETS



Double spur auger bits. Made of cast steel. Tempered and polished. Have double lips and are good bits for general use.

FULL SET OF 13 BITS
85B982—Consists of 13 bits as described. One each, by sixteenths, from $\frac{1}{16}$ to 1 inch. Put up in a neat hardwood box with hinged cover. Wt., 4 lbs. Per set \$1.75

SET OF 6 BITS

85B983—One each, $\frac{1}{16}$, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{16}$, $\frac{1}{2}$, $\frac{5}{16}$, 1 inch. Put up in hinged hardwood box. Weight, 2 lbs. Per set 85c

SINGLE TWIST AUGER BIT SETS



Strong, rapid cutting bits. Have single cutter and spur and coarse feed screw. Made of high grade steel. Correctly tempered and finely polished. A fine bit for rapid work.

FULL SET OF 13 BITS

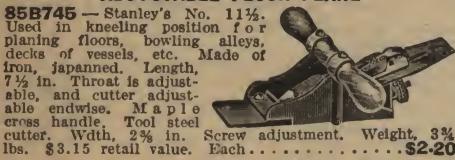
85B990—Consists of 13 bits. One each, by sixteenths, from $\frac{1}{16}$ to 1 inch. In varnished box. Wt., 4 lbs. Per set \$3.05

SET OF 6 BITS

85B991—One each, $\frac{1}{16}$, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{16}$, $\frac{1}{2}$, $\frac{5}{16}$, $\frac{1}{4}$ inch. In varnished box. Wt., 1 $\frac{1}{2}$ lbs. Per set \$1.30

STANLEY FLOOR PLANES

ADJUSTABLE FLOOR PLANE



85B745—Stanley's No. 11 $\frac{1}{2}$. Used in kneeling position for planing floors, bowling alleys, decks of vessels, etc. Made of iron, japanned. Length, 7 $\frac{1}{2}$ in. Throat is adjustable, and cutter adjustable endwise. Maple cross handle. Tool steel cutter. Width, 2 $\frac{1}{2}$ in. Screw adjustment. Weight, 3 $\frac{3}{4}$ lbs. \$3.15 retail value. Each \$2.20

LONG HANDLED FLOOR PLANE



roller skating rinks, etc. Made of iron, japanned. Length, 10 $\frac{1}{2}$ in. Tool steel cutter; width, 2 $\frac{1}{2}$ in. Average shipping weight, 23 $\frac{1}{2}$ lbs. \$4.50 retail value. Each \$3.50

PLANE GAUGES

PLANE GAUGE FOR IRON PLANES



85B710—Readily clamped to any iron plane, to accurately plane bevels of any angle. Does plane bevels of any angle. Does away with the use of a try square or bevel. Cast iron, Japanned and nickel plated. Average weight, 2 $\frac{1}{4}$ lbs. Each 70c (Plane not included.)

PLANE GAUGE FOR IRON PLANES



85B714—Stanley's No. 336. For accurately planing bevels between 30 and 90 degrees or for squaring up edges of boards. Clamps on either side of plane. Nickel plated. Average weight, 2 $\frac{1}{4}$ lbs. Each 11-20 (Plane not included.)

PLANE GAUGE FOR WOOD PLANE

85B712—Will fit any wooden plane. Attached with screws. By its use either beveling or jointing may be accurately and quickly accomplished. Cast iron. Average wt., 1 $\frac{1}{2}$ lbs. Each 58c (Plane not included.)

LAKESIDE SOLID CENTER AUGER BIT SETS

SET OF 6 BITS

85B996—Consists of 6 Lakeside solid center stem auger bits. Finest steel, well tempered and finely polished. One each $\frac{1}{16}$, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{16}$, $\frac{1}{2}$, 1 inch. Put up in a handy upright box as illustrated. A convenient set for mechanic or householder. Average weight, 2 $\frac{1}{2}$ lbs. Per set \$1.30



SET OF 8 BITS

85B995—Consists of 8 Lakeside solid center stem auger bits. Finest steel, well tempered and finely polished. One each $\frac{1}{16}$, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{16}$, $\frac{1}{2}$, $\frac{5}{16}$, $\frac{1}{4}$, 1 inch. Put up in a handy upright box, as illustrated. A very serviceable assortment. Average wt., 3 $\frac{1}{2}$ lbs. Per set \$1.65

FULL SET OF 13 BITS

85B994—Consists of a full set of 13 of our popular Lakeside Solid Center Stem Auger Bits. Have double cutter and standard double thread screw. Bore fast and true. Made of finest steel. Correctly shaped, well tempered and finely polished. Perfect in material and workmanship. One each, $\frac{1}{16}$, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{16}$, $\frac{1}{2}$, $\frac{5}{16}$, $\frac{1}{4}$, $\frac{11}{16}$, $\frac{1}{2}$, $\frac{13}{16}$, $\frac{1}{2}$, 1 inch. Put up in a handy, upright wood box with hinged cover. Nicely varnished. A most desirable assortment and popular everywhere. Average weight, 4 $\frac{1}{2}$ lbs. Per set \$2.95

AUGER BIT SETS IN CONVENIENT CANVAS ROLLS

A safe and convenient method of keeping bits from injury. Rolls are made of heavy canvas rolls, with extra flap to protect points. The case, rolled up with bits complete, measures about 3x 11 in. Average weight, per set, 3 $\frac{1}{4}$ lbs.



SET OF 13 STANDARD BITS

85B1005—Consists of 13 Cast-Steel Double Spur Auger Bits. Full polished. One each, $\frac{1}{16}$ to 1 in. Put up in plain, flannel lined, canvas roll, as shown. Complete \$1.70

85B1006—Consisting of 13 Lakeside Double Spur Auger Bits, Jennings' pattern. Finely polished. One each, $\frac{1}{16}$ in. to 1 in. Put up in a heavy, brown, canvas roll, as illustrated. Edges bound with leatherette. Fitted with brass eyelets for hanging on wall. Leather strap and buckle. Complete \$2.65

85B1008—Consists of 18 Lakeside Solid Center Stem Auger Bits. Finely Polished. One each, $\frac{1}{16}$ to 1 in. Put up in a neat, canvas roll same as Lakeside bits above. Complete \$2.75

EMPTY CANVAS ROLLS WITHOUT BITS

85B1010—With pockets for 13 auger bits. A convenient and practical way of keeping auger bits. Made of heavy brown canvas. Leatherette bound edges. Fitted with brass eyelets for hanging up with strap and buckle. Average weight, 6 oz. Each 28c

LAKESIDE SPECIAL BRACE and BIT SET



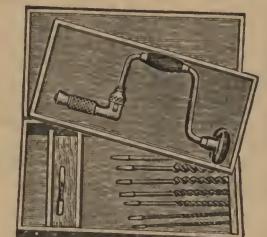
85B1014—Set consists of the following tools: 1 nickel plated steel Lakeside ratchet bit brace, 10 in. sweep. With full set of 13 Lakeside solid stem auger bits (our No. 85B18), one each, $\frac{1}{16}$ to 1 in. Set of 8 German gimlet bits, $\frac{1}{16}$ to $\frac{1}{4}$ in., one square reamer, one flat countersink, one small countersink, one auger bit file. All high grade, extra quality tools. Complete, in a neat hardwood box with hinged cover, as illustrated. Box has separate tray for brace. Average weight, 12 lbs. Regular \$6.00 to \$6.50 retail value. Per set \$4.95

BRACE AND BIT SET



85B1018—Set consists of the following tools, as illustrated: 1 nickel plated ratchet bit brace, 10-in. sweep; 7 Lakeside, extra quality steel auger bits, one each $\frac{1}{16}$, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{16}$, $\frac{1}{2}$, $\frac{5}{16}$, 1 in. (our No. 85B15); and 1 screwdriver bit. Packed complete in a nicely finished hardwood box. Box has separate tray for brace. Average weight, 7 lbs. Regular \$3.50 retail value. Per set \$2.45

BRACE AND BIT SET



85B1020—Set consists of the following tools as shown herewith: 1 Ratchet Brace, polished steel, 10-in. sweep; 7 Standard steel auger bits, one each, $\frac{1}{16}$, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{16}$, $\frac{1}{2}$, $\frac{5}{16}$, 1 in.; 1 screwdriver bit. A good outfit for general use. Packed complete in a nicely finished hardwood box, as illustrated. Box has separate tray for brace. Average weight, 5 $\frac{1}{2}$ lbs. Per set \$1.75

RAPID FLOOR SCRAPER

WILL DO THE WORK OF THREE MEN WITH HAND SCRAPER \$8.25

185B740—This machine will do the finest work on all kinds of flooring, either hard or soft wood; will do it easily and much quicker than by any other method. Has a special tool steel knife, rubber tired wheels and handle adjustable to different heights. The machine is pulled toward the operator, working upon the floor similar to a plane, leaving the surface smooth and level. The weight of the machine prevents it from jumping and leaving a wavy effect, and the rubber-tired wheels prevent scratching the floor. Does the same good work as many machines sold at a much higher price. Width of machine, 6 in., and the same knife extends across the entire width so it is possible to get close to the wall or base board and into corners. Average shipping weight, 130 lbs. Each (with two knives) \$8.75

85B741—Extra knives. Wt., 6 oz. Each 40

CARPENTERS' APRON

85B648—Made of heavy brown duck. Convenient and durable. Adjustable waist band. With four pockets, reinforced with leather at corners, as illustrated. Will hold nails, rule, etc. Neatly and carefully made throughout. Size, about 26x20 in. Weight, about 5 oz. Each 20c



It is our business to keep within reasonable limits the prices of the things you need. If we cannot make our prices more attractive than others, we cannot expect your orders.

Conditions have never before made this catalogue so interesting; the world's markets have never been so carefully combed by our buyers as they have been this season; in the face of rising prices, our quotations have been kept consistently low and attractive.

HIGH GRADE MALLETS AT LOW PRICES

RAWHIDE BOUND MALLETS

Plastic, thick hide face prevents jarring, greatly relieving the arm of the user. Made of hardwood.

Number	Diam. Face	Wt. Lbs.	Each
85B1624	2 in.	$\frac{1}{4}$	40c
85B1625	2 $\frac{1}{2}$ in.	1	52c
85B1626	3 in.	1	65c

85B1618—Solid Hickory.

ROUND WOOD MALLETS

Diam. head, 3 $\frac{1}{4}$ in. Wt., 2 $\frac{1}{4}$ lbs. Each 22c

85B1619—Lignumvitae head. Thoroughly seasoned, with occasional slight cracks. Diam., 3 $\frac{1}{2}$ in. Wt., 3 $\frac{1}{2}$ lbs. Each 42c

85B1618—Solid Hickory.

Diam. head, 3 $\frac{1}{4}$ in. Wt., 2 $\frac{1}{4}$ lbs. Each 22c

85B1619—Lignumvitae head. Thoroughly seasoned, with occasional slight cracks. Wt., 2 $\frac{1}{2}$ lbs. Each 42c

85B1618—Solid Hickory.

Diam. head, 3 $\frac{1}{4}$ in. Wt., 2 $\frac{1}{4}$ lbs. Each 22c

85B1619—Lignumvitae head. Thoroughly seasoned, with occasional slight cracks. Wt., 2 $\frac{1}{2}$ lbs. Each 42c

85B1618—Solid Hickory.

Diam. head, 3 $\frac{1}{4}$ in. Wt., 2 $\frac{1}{4}$ lbs. Each 22c

85B1619—Lignumvitae head. Thoroughly seasoned, with occasional slight cracks. Wt., 2 $\frac{1}{2}$ lbs. Each 42c

85B1618—Solid Hickory.

Diam. head, 3 $\frac{1}{4}$ in. Wt., 2 $\frac{1}{4}$ lbs. Each 22c

85B1619—Lignumvitae head. Thoroughly seasoned, with occasional slight cracks. Wt., 2 $\frac{1}{2}$ lbs. Each 42c

85B1618—Solid Hickory.

Diam. head, 3 $\frac{1}{4}$ in. Wt., 2 $\frac{1}{4}$ lbs. Each 22c

85B1619—Lignumvitae head. Thoroughly seasoned, with occasional slight cracks. Wt., 2 $\frac{1}{2}$ lbs. Each 42c

85B1618—Solid Hickory.

Diam. head, 3 $\frac{1}{4}$ in. Wt., 2 $\frac{1}{4}$ lbs. Each 22c

85B1619—Lignumvitae head. Thoroughly seasoned, with occasional slight cracks. Wt., 2 $\frac{1}{2}$ lbs. Each 42c

85B1618—Solid Hickory.

Diam. head, 3 $\frac{1}{4}$ in. Wt., 2 $\frac{1}{4}$ lbs. Each 22c

85B1619—Lignumvitae head. Thoroughly seasoned, with occasional slight cracks. Wt., 2 $\frac{1}{2}$ lbs. Each 42c

85B1618—Solid Hickory.

Diam. head, 3 $\frac{1}{4}$ in. Wt., 2 $\frac{1}{4}$ lbs. Each 22c

85B1619—Lignumvitae head. Thoroughly seasoned, with occasional slight cracks. Wt., 2 $\frac{1}{2}$ lbs. Each 42c

85B1618—Solid Hickory.

Diam. head, 3 $\frac{1}{4}$ in. Wt., 2 $\frac{1}{4}$ lbs. Each 22c

85B1619—Lignumvitae head. Thoroughly seasoned, with occasional slight cracks. Wt., 2 $\frac{1}{2}$ lbs. Each 42c

85B1618—Solid Hickory.

Diam. head, 3 $\frac{1}{4}$ in. Wt., 2 $\frac{1}{4}$ lbs. Each 22c

85B1619—Lignumvitae head. Thoroughly seasoned, with occasional slight cracks. Wt., 2 $\frac{1}{2}$ lbs. Each 42c

85B1618—Solid Hickory.

Diam. head, 3 $\frac{1}{4}$ in. Wt., 2 $\frac{1}{4}$ lbs. Each 22c

85B1619—Lignumvitae head. Thoroughly seasoned, with occasional slight cracks. Wt., 2 $\frac{1}{2}$ lbs. Each 42c

85B1618—Solid Hickory.

Diam. head, 3 $\frac{1}{4}$ in. Wt., 2 $\frac{1}{4}$ lbs. Each 22c

85B1619—Lignumvitae head. Thoroughly seasoned, with occasional slight cracks. Wt., 2 $\frac{1}{2}$ lbs. Each 42c

85B1618—Solid Hickory.

Diam. head, 3 $\frac{1}{4}$ in. Wt., 2 $\frac{1}{4}$ lbs. Each 22c

85B1619—Lignumvitae head. Thoroughly seasoned, with occasional slight cracks. Wt., 2 $\frac{1}{2}$ lbs. Each 42c

85B1618—Solid Hickory.

Diam. head, 3 $\frac{1}{4}$ in. Wt., 2 $\frac{1}{4}$ lbs. Each 22c

85B1619—Lignumvitae head. Thoroughly seasoned, with occasional slight cracks. Wt., 2 $\frac{1}{2}$ lbs. Each 42c

85B1618—Solid Hickory.

Diam. head, 3 $\frac{1}{4}$ in. Wt., 2 $\frac{1}{4}$ lbs. Each 22c

85B1619—Lignumvitae head. Thoroughly seasoned, with occasional slight cracks. Wt., 2 $\frac{1}{2}$ lbs. Each 42c

85B1618—Solid Hickory.

Diam. head, 3 $\frac{1}{4}$ in. Wt., 2 $\frac{1}{4}$ lbs. Each 22c

85B1619—Lignumvitae head. Thoroughly seasoned, with occasional slight cracks. Wt., 2 $\frac{1}{2}$ lbs. Each 42c

85B1618—Solid Hickory.

Diam. head,

HIGH GRADE METAL DRILLS AND REAMERS

BIT STOCK TWIST DRILLS

FOR METAL
BORING

85B1050—Bit Stock Drills, with square shank and will fit any ordinary bit brace. Made by one of the largest and best manufacturers in the country. Each drill is carefully tempered steel, tested and finished. Will bore any kind of untempered steel, iron or other metal. Suitable for either metal or wood. We offer them at low prices, which are only possible on account of the immense quantities which we sell. (Give size.) Lengths, $\frac{3}{4}$ to $\frac{7}{8}$ in. Weights, each, $\frac{1}{2}$ to 7 oz.

Size, in.	$\frac{1}{16}$	$\frac{3}{64}$	$\frac{1}{8}$	$\frac{5}{32}$	$\frac{3}{16}$	$\frac{7}{32}$	$\frac{1}{4}$	$\frac{9}{32}$	$\frac{5}{16}$	$\frac{11}{32}$
Each	\$0.04	\$0.05	\$0.06	\$0.07	\$0.08	\$0.09	\$0.11	\$0.12	\$0.14	\$0.16
Dozen	.43	.48	.62	.75	.92	1.05	1.20	1.40	1.60	1.85
Size, in.	$\frac{1}{8}$	$\frac{13}{32}$	$\frac{7}{16}$	$\frac{15}{32}$	$\frac{1}{2}$	$\frac{17}{32}$	$\frac{9}{16}$	$\frac{11}{16}$	$\frac{3}{4}$	
Each	\$0.18	\$0.20	\$0.22	\$0.24	\$0.26	\$0.28	\$0.37	\$0.39	\$0.46	\$0.49
Dozen	2.05	2.30	2.50	2.75	3.00	3.20	4.20	4.50	5.30	5.70

STONE CUTTERS' STAR HAND DRILLS

25c

85B1070—For stone, brick or concrete. Made of high grade steel, carefully tempered, sharpened ready for use. Used with a hammer. Length, 12 in. Weights, 6 oz. to 15 oz. (Give size.)

Size, in.	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{11}{32}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{11}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{11}{32}$
Each	\$0.04	\$0.05	\$0.06	\$0.07	\$0.08	\$0.09	\$0.11	\$0.12	\$0.14	\$0.16	
Dozen	.43	.48	.62	.75	.92	1.05	1.20	1.40	1.60	1.85	
Size, in.	$\frac{1}{8}$	$\frac{13}{32}$	$\frac{7}{16}$	$\frac{15}{32}$	$\frac{1}{2}$	$\frac{17}{32}$	$\frac{9}{16}$	$\frac{11}{16}$	$\frac{3}{4}$		

Each

\$.18 \$.20 \$.22 \$.24 \$.26 \$.28 \$.37 \$.39 \$.46 \$.49

Dozen

2.05 2.30 2.50 2.75 3.00 3.20 4.20 4.50 5.30 5.70

COMBINED DRILL AND COUNTERSINK

85B1066—Finest tempered tool steel. Specially designed for drilling and countersinking tires and wagon irons at one operation. Diameter of body, $\frac{1}{2}$ in. Length, $3\frac{1}{4}$ to 4 in. Average weight, 2 to 3 oz.

Size, in.	$\frac{1}{2}$	$\frac{3}{4}$								
Each	32c	33c	35c	36c						

BIT STOCK DRILL SET

70c

85B1052—Set of nine, first quality steel twist drills for metal or wood, with square shank for bit brace. One each, $\frac{1}{16}$, $\frac{3}{64}$, $\frac{1}{8}$, $\frac{5}{32}$, $\frac{3}{16}$, $\frac{7}{32}$, $\frac{1}{4}$, $\frac{9}{32}$, $\frac{5}{16}$. Complete in round covered box. Lengths, $3\frac{1}{2}$ to $6\frac{1}{4}$ in. Wt., per set, $1\frac{1}{4}$ lb. Per set 70c

85B1074—Extra Quality. High grade steel, fully polished. Length, $5\frac{1}{4}$ in. Weight, 3 oz. Each 200

85B1076—Milled tool steel. Tapers from $\frac{3}{8}$ to $\frac{1}{2}$ in. Length, $5\frac{1}{2}$ in.

85B1077—Milled tool steel. Length, 5 in. Tapers, $\frac{3}{8}$ to $\frac{1}{2}$ in. Average wt., 6 oz. Each 200

85B1092—Extra Quality. High grade steel, fully polished. Length, $5\frac{1}{4}$ in. Weight, 3 oz. Each 10c

85B1093—Countersink. Rose head, cast steel. Length, $3\frac{1}{4}$ in. Wt., 1 oz. Each 8c

85B1095—Steel Small Counter sinks. For either wood or metal. Length, $3\frac{1}{4}$ in. Weight, 1 oz. Each 8c

85B1096—Extra Quality. Steel Small Countersinks. Length, $3\frac{1}{4}$ in. Each 15c

85B1097—Patent Double Cut Countersink. Easily sharpened. Nickel-plated steel. Length, $4\frac{1}{2}$ in. Wt., 2 oz. Each 23c

85B1098—Double Lip Countersink, drop forged steel. Does rapid and smooth work. Can be sharpened with a file. Weight, 1 to 2 oz. (Give size.) Each 22c

Size, $\frac{1}{8}$ in. Each 23c

COUNTERSINKS TO FIT MACHINE

85B1102—With polished hardwood handle. Standard sizes. Assorted sizes. Length, $4\frac{1}{2}$ in. Weight, 4 oz. Each 6c

85B1103—Diam. of shank, $\frac{1}{2}$ in. Diam. of Diam., $\frac{1}{2}$ in. Each 28c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 28c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

Diam., $\frac{1}{2}$ in. Each 40c

**GOODELL RATCHET
BRACE**

85B1234
Steel. Nickel plated, with cocobola handle and head. Steel Jaws. A high grade tool.


\$1.10
**SAMSON RATCHET
BRACE**

85B1236
With ball bearing head and chuck. Nickel plated steel sweep. Cocobola head and center.


\$1.80

LAKESIDE RATCHET BRACE

\$1.35 BALL BEARING-EXTRA QUALITY \$1.70

85B1230—Our Lakeside Ball Bearing Ratchet Brace combines the very best features of the most expensive braces, but we sell it at a popular price. Finely nickel plated. Cocobola head and handle. Head is ball bearing and metal clad. Ring ratchet. Hardened jaws and pawls. Steel chuck. Jaws will hold firmly any square shank bit, and up to $\frac{1}{2}$ -inch round shank drills. Strong steel sweeps. Exceptional value. Highly finished. (Give size.)

Size, inches	Average weight, lbs.	Each
8	2 $\frac{1}{2}$ lbs.	\$1.10
10	3 $\frac{1}{2}$ lbs.	1.23
12	3 $\frac{1}{2}$ lbs.	1.35
14	3 $\frac{1}{2}$ lbs.	1.45

Size, inches Average weight, lbs. Each

Size, inches	Weight, pounds	Each
8	2 $\frac{1}{2}$	\$1.80
10	3 $\frac{1}{2}$	1.95
12	3 $\frac{1}{2}$	2.05
14	3 $\frac{1}{2}$	2.25
16	3 $\frac{1}{2}$	2.30

Size, inches Weight, pounds Each

FRAY'S CORNER BRACE \$2.45
UNIVERSAL CORNER BRACE \$2.15
FRAY'S SPOFFORD BRACES \$2.15

OUR FAMOUS LAKESIDE FILES AND RASPS



LAKESIDE FLAT MILL FILE

LAKESIDE FLAT MILL FILE											
LAKESIDE											
55B1460—Bastard Cut. Square edges. Lakeside brand. Finest crucible steel, perfectly cut, correctly tempered.											
Size, in. 4 5 6 8 10 12 14 16 Wt., doz. 1/8 1/6 1 1/8 2 1/2 5 1/2 9 13 1/4 16 1/2 Each 50 60 66 82 100 130 180 250 Per Doz. 560 600 670 820 \$1.08 \$1.42 \$2.04 \$2.80											

LAKESIDE FLAT MILL FILE—ONE ROUND EDGE

LAKESIDE FLAT MILL FILE—ONE ROUND EDGE											
LAKESIDE											
55B1461—Bastard cut, with one round edge. Lakeside brand. Finest crucible steel, perfectly cut, correctly tempered.											
Size, in. 4 5 6 8 10 12 14 16 Wt., doz. 1/8 1/6 1 1/8 2 1/2 5 1/2 9 13 1/4 16 1/2 Each 6c 6c 7c 8c 11c 14c 19c 28c Per Doz. 65c 68c 74c 92c \$1.20 \$1.60 \$2.78 \$3.15											

LAKESIDE FLAT BASTARD FILE

LAKESIDE FLAT BASTARD FILE											
LAKESIDE											
55B1462—Bastard Cut, Lakeside Brand. Finest crucible steel, perfectly cut, correctly tempered.											
Size, in. 4 5 6 8 10 12 14 16 Wt., doz. 1/8 1/6 1 1/8 2 1/2 5 1/2 9 13 1/4 16 1/2 Each 6c 6c 7c 8c 11c 14c 19c 28c Per Doz. 65c 68c 74c 92c \$1.20 \$1.60 \$2.78 \$3.15											

LAKESIDE CANT SAW FILES

LAKESIDE CANT SAW FILES											
8c											
55B1472—Single cut. Finest crucible steel, perfectly cut and correctly tempered.											
Length | Weight, doz. | Per doz. | Each											
5 in. | 1 lb. | \$0.89 | 8c 6 in. | 1 1/2 lb. | 1.02 | 9c 8 in. | 2 lb. | 1.22 | 11c 10 in. | 2 1/2 lb. | 1.65 | 15c											

LAKESIDE PIT SAW FILES

LAKESIDE PIT SAW FILES											
9c											
55B1474—Semi-circular shape. Single cut on both sides. Finest steel, correctly tempered.											
Length | Weight, doz. | Per doz. | Each											
5 in. | 1/2 lb. | \$1.02 | 9c 6 in. | 1 1/2 lb. | 1.16 | 10c 8 in. | 2 1/2 lb. | 1.42 | 13c 10 in. | 3 1/2 lb. | 1.73 | 15c											

HANDY AUGER BIT FILE

HANDY AUGER BIT FILE											
8c											
55B1485—For filing all sizes auger bits without filing the screw and lip away. Extra Quality Steel. Length, 7 in. Wt., each, 1/2 oz. Each 80 Per dozen 95c											
Length | Weight, doz. | Per doz. | Each											
5 in. | 1/2 oz. | \$1.02 | 8c 6 in. | 1 1/2 oz. | 1.16 | 10c 8 in. | 2 1/2 oz. | 1.42 | 13c 10 in. | 3 1/2 oz. | 1.73 | 15c											

PERFECT HANDLE SCREW DRIVERS

PERFECT HANDLE SCREW DRIVERS											
20c											
55B1416—Drop forged steel, of one piece. With wood handles pocketed in each side. Will stand all kinds of hard usage. Carefully tempered and tested. Weights, 5 to 16 oz.											
Length of blade, inches 4 6 8 10 12 14 16 Total lengths, in. 8 1/2 11 1/2 14 1/2 17 1/2 20 1/2 23 1/2 26 1/2 Each 20c 28c 38c 48c											

PERFECT EXTRA HEAVY SCREW DRIVER

PERFECT EXTRA HEAVY SCREW DRIVER											
60c											
55B1417—The square shank permits the use of a wrench on heavy work. Forged steel, one piece. With wood handles pocketed in each side of the forging. A heavy, high quality tool. Length, 9 inches. Length of blade, 4 1/2 inches. Weight, 10 oz. \$1.00 retail value.											
Each 60c											

PERFECT THREE BIT SCREW DRIVER

PERFECT THREE BIT SCREW DRIVER											
13c											
55B1422—Genuine Champion Screw Driver, one of the finest made. The blade is forged from the toughest steel, fastened securely into a fluted applewood handle. Every blade is tested to split a screw head before leaving the factory. Usual 25c to 60c retail value.											
Blade, in. 3 4 6 8 10 Total length, in. 7 1/2 8 1/2 11 1/2 14 1/2 17 1/2 Each 13c 16c 25c 30c 35c											

STANDARD SCREW DRIVERS

STANDARD SCREW DRIVERS											
85B1430											
55B1430—With Round Hardwood Handle, tapered steel ferrule. Forged steel blades.											
Length, in. 4 6 8 Each 80 120 140											

LAKESIDE FLAT MILL FILE

LAKESIDE FLAT MILL FILE											
LAKESIDE											

LAKESIDE PLAIN FACE HAMMER

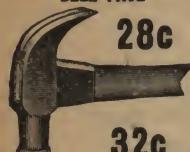


Lakeside nail hammer. Plain face. Forged from high grade crucible steel, finely polished and tempered. Extra quality hickory handle.

85B1524—Size 1; weight of head, about $1\frac{1}{4}$ lbs. Each .45c

85B1525—Lakeside hammer. Plain face. Size, $1\frac{1}{2}$; weight of head, about 1 lb. Each .42c

SOLID STEEL HAMMERS BELL FACE



28c

SOLID STEEL HAMMERS PLAIN FACE



28c

32c

32c

Cast steel. Bell face. Adze eye, full polished, with hickory handle. Excellent value.

85B1543—Size 1. Weight of head, $1\frac{1}{4}$ lbs.

85B1540—Size 1. Wt. of head, $1\frac{1}{4}$ lbs. Each .32c

85B1541—Size $1\frac{1}{2}$. Wt. of head, 1 lb. Each .30c

85B1542—Size 2. Wt. of head, 13 oz. Each .28c

Each .

FAMOUS LAKESIDE HIGH GRADE AXES

We offer here our Lakeside Special Axe as a tool which will please and satisfy the most critical woodsman. This is a top notch, quality axe in every respect and we know of none better in the market at any price. Made of special analysis steel, accurately shaped, carefully tempered and finished in a handsome jet black rustless finish. Flint edge, hand honed, ready for use. Each axe thoroughly inspected and tested, and will give perfect satisfaction.



LAKESIDE SPECIAL SINGLE BIT AXE. MICHIGAN PATTERN

Rustless black finish. The handled axes are accurately fitted with selected best quality white hickory handles, octagon shape with scroll end. Width of bit, about 5 in.

WITH HANDLE		WITHOUT HANDLE	
185B1679—Fitted with finest grade octagon hickory handle. Shipping weight, about 7 lbs.	85B1680—Axehead only. Without handle. Shipping weight, about 7 lbs.	Wt. of head, lbs.	3 3/4 4 4 1/2 5
Wt. of head, lbs.	Wt. of head, lbs.	Each	55c 55c 60c 65c 70c

85B1680—Axehead only. Without handle. Shipping weight, about 7 lbs.	Wt. of head, lbs.	3 3/4 4 4 1/2 5	55c 55c 60c 65c 70c
Wt. of head, lbs.	Wt. of head, lbs.	Each	55c 55c 60c 65c 70c

LAKESIDE RAZOR BLADE AXE

SINGLE BIT



Our Famous Razor Blade Axe. Michigan pattern. High grade steel. Full polished and etched. Has a thin, keen cutting edge. The handled axes are accurately fitted with excellent, octagon, second growth hickory handles.

WITH HANDLE		WITHOUT HANDLE	
185B1704—Fitted with high grade octagon handle. (Give size.) Shipping wt., about 7 lbs. Width of bit, about 5 in.	85B1705—Axe head only, without handle. (Give size.) Shipping wt., about 6 lbs. Width of bit, about 5 in.	Wt. of head, lbs.	3 3/4 4 4 1/2 5
Wt. of head, lbs.	Wt. of head, lbs.	Each	50c 55c 60c 65c

MICHIGAN PATTERN

LAKESIDE RAZOR BLADE AXE

DOUBLE BIT



Our Famous Razor Blade Double Bit Axe. Michigan pattern. High grade steel. Full polished and etched. Has a thin, keen cutting edge. The handled axes are accurately fitted with extra quality, Octagon, second growth hickory handles.

WITH HANDLE		WITHOUT HANDLE	
185B1707—Fitted with high grade octagon handle. (Give size.) Shipping wt., about 7 lbs. Width of bit, about 5 in.	85B1708—Axe head only, without handle. (Give size.) Shipping wt., about 6 lbs. Width of bit, about 5 in.	Wt. of head, lbs.	4 4 1/2 5
Wt. of head, lbs.	Wt. of head, lbs.	Each	50c 80c 85c 90c

LAKESIDE CLIP-CUT AXE

SINGLE BIT

MICHIGAN PATTERN



Our Clip Cut Axe. Michigan pattern. One of the fastest cutting and best axes on the market. Has a thin phantom bevel blade, which will not stick or bind in the timber. High grade steel, finely tempered. Polished and bronzed, with blued bevels.

WITH HANDLE		WITHOUT HANDLE	
185B1698—Fitted with oval, second growth hickory handle. (Give size.) Ship. wt., about 7 lbs. Width of bit, about 5 in.	85B1700—Axe head only, without handle. (Give size.) Shipping wt., about 6 lbs. Width of bit, about 5 in.	Wt. of head, lbs.	3 3/4 4 4 1/2 5
Wt. of head, lbs.	Wt. of head, lbs.	Each	45c 50c 55c 60c

CANT HOOKS



185B245—For handling logs. With 4 1/2 ft. heavy, hard maple handles. Duck bill hooks and extension toe-ring which protects handle. \$1.25 value. Average ship. wt., 6 1/2 lbs.

SKIDDING TONGS



185B250—Forged crucible steel. Will open 32 in. Made of 1 1/4 in. oct. steel, strong and substantial. Swivel hook. Average shipping wt., 20 lbs. Each \$2.95

LUG HOOKS OR TIMBER CARRIERS

\$1.10



185B252—Will grapple from 3 in. to 16 inch. Hooks are "duck" bill pattern, made of forged steel. Handles of hard maple. Length, 42 in., with swivel. Ship. wt., 7 pounds. Each, complete \$1.10

LAKESIDE SINGLE BIT AXE HANDLE, 30c OCTAGON SHAPE

585B1750—Our Lakeside Axe Handle is made of extra select second growth hickory, hand shaved, octagon shape. One of the very finest handles on the market. Perfect in every detail. Look for the label Lakeside on each handle. Length, 36 in. Weight, each, 1 1/2 lbs. Per dozen

LAKESIDE DOUBLE BIT AXE HANDLE OCTAGON SHAPE

585B1756—One of the very finest handles on the market. Made of extra select second growth hickory, hand shaved. Length, 36 inches. Look for the label Lakeside on each handle. Weight, each, 1 1/2 lbs. Per dozen

STEEL WOOD WEDGES

585B1732—Forged steel, oil finish. Average length, 9 in. Weights will vary. (Give size.) Wt. lbs.

STEEL WOOD WEDGES

585B1734—Oregon pattern. Forged steel, oil finish. Lengths, 8 to 9 1/2 in. Weights will vary. (Give size.) Wt. lbs.

OVAL HICKORY AXE HANDLES

SINGLE BIT

585B1752—Turned No. 1 Hickory. Length, 36 in. Well finished. Wt. each, 1 1/2 lbs.

Each 14c Per Dozen \$1.60

585B1753—Oval Hickory, XXX grade, smooth and correctly shaped. Length, 36 in. Weight, each, 1 1/2 lbs.

Per dozen \$2.60 Each 23c

OCTAGON HICKORY AXE HANDLES

SINGLE BIT

585B1754—Select young hickory, XXX grade. Length, 36 in. Wt. ea., 1 1/2 lbs.

Each 24c Per dozen \$2.65

BLUE OAK AXE HANDLES

SINGLE BIT

585B1760—Oval, light pattern. Well finished. Becoming very popular. Length, 36 in. Weight, each, 1 1/2 lbs.

Per dozen \$2.30 Each 200

585B1761—Oval, light pattern. Length, 36 in. To fit our Wood Choppers' Mauls. Weight, each, 1 1/2 lbs.

Per dozen \$2.30 Each 20

BLUE OAK AXE HANDLES

DOUBLE BIT

585B1758—Turned oval hickory. Smooth and well finished. No. 1 grade. Length, 36 in. Weight, each, 1 1/2 lbs.

Per dozen \$1.60 Each 14

HICKORY MAUL HANDLES

585B1737—Turned hickory. Length, 36 in. To fit our Wood Choppers' Mauls. Weight, each, 1 1/2 lbs.

Per dozen \$1.65 Each 15

STEEL WOOD WEDGES

585B1732—Forged steel, oil finish. Average length, 9 in. Weights will vary. (Give size.) Wt. lbs.

STEEL WOOD WEDGES

585B1734—Oregon pattern. Forged steel, oil finish. Lengths, 8 to 9 1/2 in. Weights will vary. (Give size.) Wt. lbs.

WOOD-CHOPPERS' MAULS

585B1736—Oregon pattern. Forged steel, oil finish. Without handle. Average length, 10 in. Wts. will vary. (Give size.) Wt. lbs.

8 64c 10 80c

12 96c Per dozen 180

AXE HANDLE WEDGES

585B1770—Malleable iron. Convenient for tightening any loose axe handle. Length, 2 1/2 in. Wt. per doz., 1 1/4 lbs.

Per dozen 180

LAKESIDE CRUCIBLE STEEL CROSS CUT SAW

LAKESIDE SPECIAL GROUND SAWS \$2.50
ARC GROUND—TUTTLE TOOTH



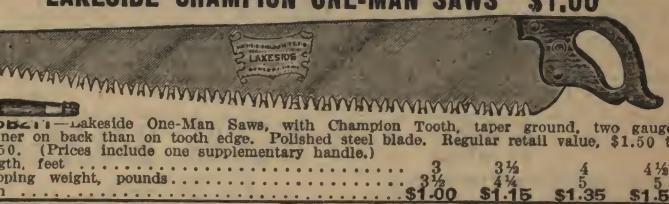
185B205—Lakeside Special Saw, ground to a uniform thickness on cutting edge, with a uniform reduction in thickness from each end of the saw to the center, as well as from the teeth to the back. Steel blade cutting edge is 14 gauge, back, 16 gauge, and center of saw, 19 gauge. A fast cutting saw which requires but little set. One of the finest made. Usual retail value, \$3.50 to \$4.25. (Prices do not include handles.) Length, feet 5 5 1/2 6 6 1/2 Shipping weight, pounds 5 6 6 1/2 7 1/2 8 Each \$2.50 \$2.75 \$3.00 \$3.25

LAKESIDE PERFORATED LANCE TOOTH LONE MAN SAW \$1.70



185B208—Lakeside Perforated Lance Tooth Saws. Polished steel blade. Thin back; ground to a true taper, four gauges thinner in the back than in the cutting edge. Will cut rapidly and easily, and will not bind in the timber. Usual \$2.50 to \$3.00 retail value. (Price without handles.) Length, feet 5 5 1/2 6 6 1/2 7 1/2 8 1/2 Shipping weight, pounds 5 6 6 1/2 7 1/2 8 1/2 Each \$1.70 \$1.85 \$2.00 \$2.15

LAKESIDE CHAMPION ONE-MAN SAWS \$1.00



185B211—Lakeside One-Man Saws, with Champion Tooth, taper ground, two gauges thinner on back than on tooth edge. Polished steel blade. Regular retail value, \$1.50 to \$2.50. (Prices include one supplementary handle.) Length, feet 3 3 1/2 4 4 1/2 Shipping weight, pounds 3 1/2 4 1/2 5 1/2 6 1/2 Each \$1.00 \$1.15 \$1.35 \$1.50

LAKESIDE PERFORATED LANCE TOOTH ONE-MAN SAW \$1.75



185B219—Lakeside Special, arc ground saw, with skew back. A fine, high grade, fast cutting saw, requiring but little set. Ground to a uniform thickness at cutting edge with a uniform reduction in thickness from the teeth to the back, as well as from the point to the handle. Steel blade cutting edge is 15 gauge; back is 17 gauge at point, tapering to 19 gauge at the handle. Large, comfortable handle. Usual retail value, \$2.50 to \$3.75 each. Length, feet 3 3 1/2 4 4 1/2 5 5 1/2 Shipping weight, pounds 3 4 4 1/2 5 5 1/2 Each (with supplementary handle) \$1.75 \$2.00 \$2.25 \$2.50

BIG VALUES IN HIGH GRADE CARPENTERS' STEEL SQUARES

COMBINATION SQUARE



Designed particularly for carpenters. Has a fine steel blade, graduated in 8th, 12th, 32nd and 48th inches. Metal head, finely finished and accurate. Usual retail value, \$1.25 to \$2.00.

85B1922 — With 12-inch blade. **88c**

85B1923 — With 18-inch blade. **\$1.32**

COMBINATION BEVEL AND GAUGE



40c

FOX TRY AND MITRE SQUARE

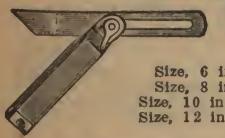


60c

85B1920

Made of steel, nickel-plated. Accurate. Size, 10x7 in. Wt., 8 oz. Each. **60c**

SLIDING T BEVELS



85B1926 — Tempered steel blade. With rosewood handle, brass mounted. Recessed screw. Size, 6 in. Wt., 3 oz. Each. **18c**

Size, 8 in. Wt., 5 oz. Each. **20c**

Size, 10 in. Wt., 6 oz. Each. **22c**

Size, 12 in. Wt., 8 oz. Each. **25c**

IMPROVED T BEVEL



STEEL T BEVEL



22c

85B1928 — Nickel-plated steel. Weights, 5 to 9 oz. Size, in. 6 8 10 12 Each. **22c 23c 26c 30c**

PATENT STAIR GAUGE



For cutting in rafters, braces, stairs, etc. Adjustable to any pitch or angle with a steel square. L-shaped steel, $\frac{3}{8} \times \frac{1}{2}$ in. thick, nickel-plated. (Square not included.) Wts., 14 to 20 oz. each.

85B1905 — Size, 18 in. (not graduated). Each. **90c**

85B1906 — Size, 28 in. (not graduated). Each. **90c**

85B1907 — Size, 18 in. Graduated 4ths, 12ths and 24ths. Each. **1.30**

Each. **1.32**

85B1908 — Size, 28 in. Graduated 26 inches, in 4ths, 12ths, 24ths. Each. **.50c**

PERFECTED—TAKE-DOWN—RAFTER SQUARE



Covers All Uses
Works Easy

\$1.95

TRY SQUARE



85B1910
Rosewood brass faced handle. Steel blade. Wt., 4 to 8 oz. Each. **14c 18c 19c 25c**

FOX TRY SQUARE



20c

85B1912 — Fox Try Square. Made of steel, nickel-plated. Very accurate. Weights, 4 to 11 oz. Each. **20c 23c 27c 35c**

STEEL MITRE SQUARE



25c

85B1914 — Fox's Steel Try and Mitre Square, nickel-plated. Very accurate. Weight, 5 oz. Each. **10 oz. 25c 30c 35c**

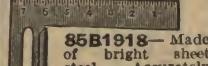
Try and Mitre Square



22c

85B1916 — Rosewood handle, brass trimmings. Graduated steel blade. Wts., 4 to 8 oz. Each. **22c 23c 28c 35c**

Try and Mitre Square



10c

85B1918 — Made of bright sheet steel. Accurately graduated. Wt., 5 oz. Size, 7 1/2 in. Each. **.50c**

STANDARD STEEL SQUARES

Strictly high grade, well finished and accurate. We save you about one-half the usual retail price: The "face" of a square is the side upon which the brand is stamped, the larger arm is the "body" and the shorter arm is the "tongue."

85B1870 — Steel Square, No. 7. Polished. Size of body, 24x2 in.; size of tongue, 16x1 1/2 in. Spaced face, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ in. back, $\frac{1}{4}$, 1 in. Essex Board Measure. Weight, 1 1/2 lbs. Each. **.42c**

85B1871 — Steel Square, No. 3. Polished. Size of body, 24x2 in.; size of tongue, 16x1 1/2 in. Spaced face, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ in. back, $\frac{1}{2}$, $\frac{3}{4}$ in. Brace Measure and Essex Board Measure. Weight, 2 1/2 lbs. Each. **.48c**

85B1872 — Steel Square, No. 3, nickel-plated. Same description as above. Wt., 2 1/2 lbs. Each. **.70c**

85B1873 — Steel Square, No. 3. Polished. Size of body, 24x2 in.; size of tongue, 18x1 1/2 in. Same as 85B1871, except has 18 in. tongue. Weight, 2 1/2 lbs. Each. **.48c**

85B1874 — Steel Square, No. 3B. Blued. A rich blue color, with enameled graduations, otherwise the same description as No. 3, with 16x1 1/2 in. tongue. Weight, 2 1/2 lbs. Each. **.78c**

85B1875 — Steel Square, No. 100. Polished. Size of body, 24x2 in.; size of tongue, 16x1 1/2 in. Spaced face, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ in. back, $\frac{1}{2}$, $\frac{3}{4}$ in. Brace Measure. 8 square and Essex's Board Measure. Weight, 2 1/2 lbs. Each. **.65c**

85B1878 — Steel Square, No. 100. Nickel-plated. Same description as 85B1875. Weight, 2 1/2 lbs. Each. **.85c**

SMALL STEEL SQUARES

85B1879 — Steel Square, No. 100 C. Royal Copper Finish. Anti-rusting, with white enameled figures and graduations, otherwise the same description as No. 100. Weight, 2 1/2 lbs. Each. **.15c**

85B1882 — Steel Square. Polished. A new and convenient size. Body, 18x1 1/2 in. Size of tongue, 12x1 in. Spaced face, $\frac{1}{2}$, $\frac{1}{2}$, $\frac{3}{4}$ in. Weight, 1 1/2 lbs. Each. **.45c**

85B1883 — Steel Square. Blued. A rich blue color with enameled graduation. Otherwise the same as above. Wt., 1 1/2 lbs. Each. **.70c**

85B1884 — Machinists' Steel Square, No. 20. Nickel plated. Size of body, 6x1 in.; size of tongue, 4x $\frac{1}{2}$ in. Spaced face, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ in. A convenient little square for the cabinet maker, etc. Weight, 4 oz. Each. **.45c**

85B1885 — Steel Square, No. 12. Nickel-plated. Size of body, 12x1 1/2 in.; size of tongue, 8x1 in. Spaced face, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ in. Weight, $\frac{3}{4}$ lbs. Each. **.55c**

IRON SQUARE

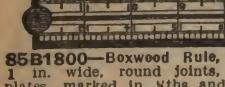
85B1888 — Iron Squares; size of body, 24x2 in.; size of tongue, 12x1 1/2 in.; marked in 8ths on both sides. Weight, 1 1/2 lbs. Each. **.25c**

RULES FOR ALL PURPOSES AT WHOLESALE PRICES

DOUBLE BRASS-BOUND BOXWOOD RULES



TWO FT. BOXWOOD RULES



85B1800 — Boxwood Rule, 2 ft., 4-fold, 1 in. wide, round joints, middle hinge plates, marked in 8ths and 16ths. Weight, 2 oz. Each. **8c**

85B1801 — Boxwood Rule, 2 ft., 4-fold, 1 in. wide, square joint, edge plates, marked 8ths, 10ths, 12ths, 16ths, in. drafting scale. Weight, 2 oz. Each. **16c**

85B1802 — Boxwood Rule, 2 ft., 4-fold, 1 in. wide, arch joints, middle hinge plates, marked 8ths, 10ths, 12ths, 16ths, in. drafting scale. Weight, 2 oz. Each. **15c**

BROAD BOXWOOD RULE



85B1803 — Broad Boxwood Rule, 2 ft., 4-fold. Arch joints, spaced in 8ths, 10ths, 12ths, 16ths, in. drafting scales. Width, $\frac{1}{2}$ in., double brass bound. **45c**

85B1804 — Broad Boxwood Rule, 2 ft., 4-fold, arch joints, spaced in 8ths, 10ths, 12ths, 16ths, in. drafting scales. Width, $\frac{1}{2}$ in., double brass bound. **45c**

85B1805 — Narrow Boxwood Rule, width, $\frac{1}{2}$ in. Length, 2 ft., 4-fold, square joints, brass bound, marked 8ths, 10ths, 12ths, 16ths of in. Weight, 3 oz. Each. **32c**

ZIGZAG FLEXIBLE FOLDING RULE

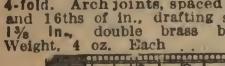


GOOD QUALITY

15c



85B1840 — Flexible hard wood, bright yellow enamel finish, with distinct black markings, 6 in. folds. Steel riveted spring joints and metal tips. Spaced in 16ths. Weight, 3 to 6 oz. Length, 4 ft. 6 ft. 8 ft. Each. **15c 24c 32c**



85B1841 — Hard maple, 1 in. wide. Spaced in 8ths. Brass trimmed. When extended to required length, the sections may be secured by the set screw. Weight, 10 oz. to 20 oz. Each. **2 to 3 ft.** **48c 55c 63c 78c**



85B1842 — Hard maple, 1 in. wide. Spaced in 8ths. Brass trimmed. When extended to required length, the sections may be secured by the set screw. Weight, 10 oz. to 20 oz. Each. **2 to 3 ft.** **48c 55c 63c 78c**

STANLEY EXTENSION RULES

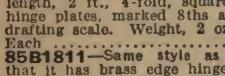


85B1843 — Hard maple, 1 in. wide. Spaced in 8ths. Brass trimmed. When extended to required length, the sections may be secured by the set screw. Weight, 10 oz. to 20 oz. Each. **2 to 3 ft.** **48c 55c 63c 78c**



85B1844 — Hard maple, 1 in. wide. Spaced in 8ths. Brass trimmed. When extended to required length, the sections may be secured by the set screw. Weight, 10 oz. to 20 oz. Each. **2 to 3 ft.** **48c 55c 63c 78c**

NEAR SITE RULES



85B1845 — Hard maple, 1 in. wide. Spaced in 8ths. Brass trimmed. When extended to required length, the sections may be secured by the set screw. Weight, 10 oz. to 20 oz. Each. **2 to 3 ft.** **48c 55c 63c 78c**

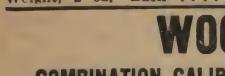


85B1846 — Hard maple, 1 in. wide. Spaced in 8ths. Brass trimmed. When extended to required length, the sections may be secured by the set screw. Weight, 10 oz. to 20 oz. Each. **2 to 3 ft.** **48c 55c 63c 78c**

COMBINATION RULE

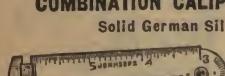


85B1847 — Full brass bound, and combines a carpenter's rule, square, plumb, level, square, depth gauge, or marking gauge, by attaching to any two-foot rule what is one-inch wide. Light and very useful. Cast iron, nicely nickel-plated. Weight, 3 oz. Each. **35c**



85B1848 — Full brass bound, and combines a carpenter's rule, square, plumb, level, square, depth gauge, or marking gauge, by attaching to any two-foot rule what is one-inch wide. Light and very useful. Cast iron, nicely nickel-plated. Weight, 3 oz. Each. **35c**

BOXWOOD RULE

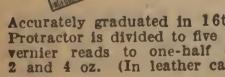


85B1849 — Boxwood Rule, 1 ft., 4-fold, arch joints, 8ths, 10ths, 12ths, 16ths. Weight, 1 oz. Each. **18c**



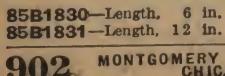
85B1850 — Solid Ivory Caliper Rule, German silver trimmed, 2-fold. Length, 6 in. Width, $\frac{1}{2}$ in. Spaced in 8ths and 16ths of an inch. Weight, 1 oz. Each. **95c**

CALIPER RULES



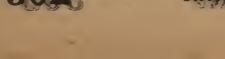
85B1851 — Solid Ivory Caliper Rule, German silver trimmed, 2-fold. Length, 6 in. Width, $\frac{1}{2}$ in. Spaced in 8ths and 16ths of an inch. Weight, 1 oz. Each. **95c**

Caliper Rules



85B1852 — Boxwood Caliper Rule. Square joint, 2-fold, spaced in 8ths, 10ths, 12ths and 16ths. Length, 6 in. Width, $\frac{1}{2}$ in. Weight, 1 oz. Each. **18c**

Caliper Rules



85B1853 — Solid Ivory Caliper Rule, German silver trimmed, 2-fold. Length, 6 in. Width, $\frac{1}{2}$ in. Spaced in 8ths and 16ths of an inch. Weight, 1 oz. Each. **95c**

Caliper Rules

85B1854 — Solid Ivory Caliper Rule, German silver trimmed, 2-fold. Length, 6 in. Width, $\frac{1}{2}$ in. Spaced in 8ths and 16ths of an inch. Weight, 1 oz. Each. **95c**

Caliper Rules

85B1855 — Solid Ivory Caliper Rule, German silver trimmed, 2-fold. Length, 6 in. Width, $\frac{1}{2}$ in. Spaced in 8ths and 16ths of an inch. Weight, 1 oz. Each. **95c**

Caliper Rules

85B1856 — Solid Ivory Caliper Rule, German silver trimmed, 2-fold. Length, 6 in. Width, $\frac{1}{2}$ in. Spaced in 8ths and 16ths of an inch. Weight, 1 oz. Each. **95c**

Caliper Rules

85B1857 — Solid Ivory Caliper Rule, German silver trimmed, 2-fold. Length, 6 in. Width, $\frac{1}{2}$ in. Spaced in 8ths and 16ths of an inch. Weight, 1 oz. Each. **95c**

Caliper Rules

85B1858 — Solid Ivory Caliper Rule, German silver trimmed, 2-fold. Length, 6 in. Width, $\frac{1}{2}$ in. Spaced in 8ths and 16ths of an inch. Weight, 1 oz. Each. **95c**

Caliper Rules

85B1859 — Solid Ivory Caliper Rule, German silver trimmed, 2-fold. Length, 6 in. Width, $\frac{1}{2}$ in. Spaced in 8ths and 16ths of an inch. Weight, 1 oz. Each.

SURVEYING, ENGINEERING AND FARM DRAINAGE LEVELS

DRAINAGE OR FARM LEVEL WITH TELESCOPE



\$22¹⁰

85B1954—An instrument constructed for the use of farmers, ditchers, landscape gardeners, etc. Has a fine telescope, 12 inches long, magnifying power of 16 diameters; graduated level vial, same being sensitive enough to tell a variation of $\frac{1}{8}$ inch in 100 feet distance after being leveled up. Instrument revolves on a spindle and is always kept in a level plane. Constructed of bronze metal and packed in neat hardwood box. Shipping wt., 22 lbs. Each (complete with tripod) \$22.10

85B1955—Drainage Level, like above, but with horizontal circle reading to degrees for turning angles. Shipping wt., 22 lbs. Price, each (complete with tripod) \$25.50

DRAINAGE OR FARM LEVEL

WITH SIGHTING TUBE



85B1951—For laying out farm lands, drainage ditches, roadmaking and similar uses. It is provided with 10 $\frac{1}{4}$ -inch sighting tube, level vial mounted in the tube, pinhole eyepiece, front closed by a glass, with cross-hairs, 4-inch horizontal circle, graduated to degrees in four directions, free from technical terms, are furnished with each level. Complete in neat wooden case, with lock, hooks and metal handle, plumb bob key for center, wood leveling rod, strong hardwood tripod. Shipping weight, about 10 lbs. \$14.95

SURVEYORS' HAND LEVEL

85B1960—Convenient in making preliminary surveys, building ditches or roads and is invaluable for this work in running lines or estimating elevations or depressions. Accurately made, with heavy bronze metal case. Length, 5 in. In neat leather case. Weight, 9 oz. Price (with leather case) \$3.25

FOLDING SIGHT COMPASSES WITH TWO LEVELS

Well made and finely finished. Have folding hook sights, jeweled bar needle with sliding stop and full raised circle divisions; two levels for adjustment. Can be used on either tripod or Jacob Staff as desired. Each Compass in case \$7.90

Jacob Staff for Above

85B1986—Single stick. Hardwood with metal shoe for use with either of above compasses. Length, 4 $\frac{1}{2}$ ft. Weight, about 2 lbs. Price \$9.00

Tripod for Above

85B1987—Well finished hardwood, with Jacob Staff top, for use with either of above compasses. Weight, about 5 lbs. Price \$2.75

SURVEYORS' MEASURING CHAINS

BEST AMERICAN MAKE

Highest Grade American Iron Measuring Chain. With two round rings between links. With brass talons and brass swivel handles. Made of extra quality, rust-resisting iron. Bright finish. Joints are very closely butted, but not brazed.

85B2000—Length, 33 ft. Weight, 4 $\frac{1}{2}$ lbs. Each \$1.85

85B2001—Length, 50 ft. Weight, 5 $\frac{1}{2}$ lbs. Each \$2.10

85B2002—Length, 66 ft. Weight, 8 $\frac{1}{2}$ lbs. Each \$2.80

85B2003—Length, 100 ft. Weight, 10 $\frac{1}{2}$ lbs. Each \$3.10

METALLIC LINEN TAPES LEATHER COVERED CASE

Strong steel case, covered with hard leather, hand sewed. With flush handle, and nickel trimming. Tape is $\frac{1}{4}$ in. wide. Best woven linen with bronze wires interwoven to prevent stretching and shrinking.

85B2035—Marked on one side in feet and tenths, and on the other side in links.

Size Feet	Wt., lbs.	Each
50	$\frac{1}{4}$	\$2.10
75	1	2.60
100	$1\frac{1}{4}$	3.25

85B2036—Marked on one side in feet and tenths, and on the other side in links.

Size Feet	Wt., lbs.	Each
50	$\frac{1}{4}$	\$2.10
75	1	2.60
100	$1\frac{1}{4}$	3.25



85B2038—Steel Tapes, $\frac{3}{8}$ in. wide in leather case. Nickel-plated trimmings. Designed for contractors, builders, masons, etc. Accurately marked in feet, inches, and eighths of inches.

Size Feet	Wt., oz.	Each
25	7	\$2.25
50	12	2.85
75	16	3.75
100	20	4.85

STANDARD TAPE LINE ENAMELED CASE

85B2042—Neat, strong brass bound enameled case, folding handle. Oiled linen tape, $\frac{1}{4}$ in. wide. A good, inexpensive tape for ordinary use. Marked in feet and inches.

Size Feet	Wt., oz.	Each
25	7	\$2.25
50	12	2.85
75	16	3.75
100	20	4.85

ARCHITECTS' CONVERTIBLE LEVEL WITH OR WITHOUT TANGENT SCREW

85B1970—This instrument has tangent screw. Is similar in construction to our No. 85B1966, but with the addition of a patent arrangement by means of which it can be used for taking vertical sights to the extent of 45 degrees in either direction.

Will also take horizontal angles between two points not in the same plane. Has various uses, such as leveling walls, laying out angles, giving lines and levels for buildings, grading tracks, streets, sewers, drains, etc. Architects and builders will find this additional device well worth the extra cost. Our instrument is constructed with an adjustable horizontal bearing which makes the instrument rigid and accurate, and also prevents the telescope from over-balance. This is an improvement over other instruments of this kind.

It has a 12-inch telescope with a graduated level vial mounted on it, magnifying power 19 diameters; objective 1 $\frac{1}{2}$ in. aperture, with rack and pinion movement, dust guard, sun shade and dust cap. Eye-piece adjustable for focusing cross hairs. Horizontal circle 4 $\frac{1}{2}$ in. divided to degrees reading by vernier, attached to the spindle, to 5 minutes.

The horizontal circle is reversible for the purpose of setting it at zero at any given joint. Four leveling screws. Instrument complete in mahogany finished box with plumb bob, adjustable pins, hardwood tripod, and metal trivet (for setting the instrument on a surface of wood or stone). There is no compass needle on this instrument. Shipping weight, about 25 lbs. Exceptional value.

Price, each (complete with tripod) \$52.50

85B1971—Architects' Convertible Level, like above, but without tangent screw. Shipping weight, about 25 lbs.

Price, each (complete with tripod) \$48.10

ARCHITECTS' LEVEL WITH OR WITHOUT TANGENT SCREW



\$3825

85B1965—This instrument is especially designed for Architects and Contractors, for leveling walls, laying out angles, giving lines and levels for buildings, grading streets, sewers, drains, etc. It has 12-inch telescope, magnifying power, 19 diameters; objective, 1 $\frac{1}{2}$ in. aperture, with rack and pinion movement, dust guard, sun shade and dust cap. Eye-piece adjustable for focusing cross hairs. Graduated level vial; horizontal circle, 4 $\frac{1}{2}$ in. divided to degrees reading by vernier (which is attached to the spindle) to five minutes. The horizontal circle is reversible for the purpose of setting the same at zero at any given point. Four leveling screws. Instrument complete in mahogany finished box with plumb bob, adjustable pins, metal trivet (for setting the instrument on a surface of wood or stone), hardwood tripod. Shipping weight, 18 lbs.

Price (complete with tripod) \$38.25

85B1966—Architects' Level, like above, but with tangent screw. Shipping wt., 18 lbs.

Each (with tripod) \$42.80

FARMERS' OR CONTRACTORS' LEVEL WITH SIGHTING TUBE



85B1958—Starrett's No. 101, Leveling Instrument. For architects, contractors, carpenters, millwrights, masons, surveyors, etc. Its lightness, simple construction, and extremely moderate price, combined with the wide range of work to which it can be applied, make it very desirable.

The tripod is of iron, and has improved extension legs, adjustable from 2 $\frac{1}{2}$ to 4 $\frac{1}{2}$ ft. The sight tube is brass, two inches long, and in one end is a small eye aperture, while the other end has the usual eye piece. Has fine nickel and japan finish. We have sold a great many of these instruments to farmers, for use on their ditches, sewers, etc. This instrument appeals to farmers, particularly, because of its strength and simplicity. It is adapted to all their needs without a lens, and is sold at a very moderate price. The distance through which a sight may be taken with this instrument is considerable, depending, of course, on the strength of the eye applied to it. Shipping weight, 14 lbs. Price (complete with tripod and directions for use, packed in neatly finished wood case) \$9.63

RECONNOISSANCE TRANSIT FOR RAPID AND PRELIMINARY SURVEYING

85B1975—This instrument is designed for light and moderately accurate work and recommended for rapid and preliminary surveying. Mining and all such work, where a light and portable instrument is desired. Erecting Telescope, 9 in.; magnifying power 28 diameter; lenses of best domestic make; stadia wires; graduated level vial to telescope; objective 1 $\frac{1}{2}$ in. diameter, with rack and pinion movement; dust guard, sun shade and dust cap; spiral motion arrangement for focusing cross and stadia hairs; clamp and tangent screws to telescope axis; telescope reversible from both ends, vertical circle, 3 $\frac{1}{2}$ in., graduated to degrees and numbered to quadrants with vernier reading to five minutes. Horizontal Limb, 5 $\frac{1}{2}$ in., graduated to $\frac{1}{2}$ degree, with two rows of figures reading in opposite directions from 0 to 360 degrees. One double vernier reading to single minutes. Vernier opening 30 degrees to the line of sight; clamp and tangent screws to horizontal limb; compass needle 3 $\frac{1}{2}$ in. with variation plate, two plate levels; shifting center. Weight of instrument, 9 $\frac{1}{2}$ lbs., with tripod, 16 $\frac{1}{2}$ lbs. Instrument complete in mahogany finished box; plumb bob, reading glass, adjusting pins, etc. Extension tripod. Shipping weight, about 30 lbs. Price, each (complete with tripod) \$98.00

FOLDING SIGHT COMPASSES

FOLDING SIGHT COMPASS AN EXCELLENT POCKET COMPASS



Well made and durable. Intended for retracing lines that have once been surveyed, and may also be used as a pocket compass. Have full raised circle divisions and jeweled bar needle and sliding stop.

85B1980—Diameter, 2 in. Weight, 6 oz. Each \$3.25

85B1981—Diameter, 2 $\frac{1}{2}$ in. Weight, 10 oz. Each \$3.70

VERNIER COMPASS WITH FOLDING SIGHTS



85B1991—For approximate work. Folding sights with hairline and slit value. Size of needle, 3 $\frac{1}{2}$ in. Diameter of case, 5 in. On the inside ring, a second scale is given, for setting off either East or West magnetic variation. Vernier reading to 5 minutes. Fitted with bar needle, jeweled center and stop. Two sensitive spirit levels, and a ball and socket mounting for a Jacob Staff. Complete in case. Weight, 1 $\frac{1}{2}$ lbs. Each \$12.50

SURVEYORS' VERNIER COMPASS

85B1992—Constructed of bronze metal, graduated to $\frac{1}{2}$ degrees and numbered in quadrants. Has a 5-15 in. two spirit levels. Detachable sights. The sight is graduated on the right and left sides. Angles of elevations and depressions of 25 degrees each way can be taken with considerable accuracy. The sight has two eye-pieces for reading the graduations on the N sight. With an outkeeper (for keeping tally in chaining) variation plate inside the compass box, reading to five minutes. Thumb and clamp screw for setting the magnetic variation of the needle. The E and W letters are reversed from their positions on the map, because the needle is a fixed point, while the compass box is revolved in directing the sights to the object observed. Complete in mahogany finished box with tripod. Shipping wt., about 24 lbs. Price (with tripod) \$37.50

85B1993—With Jacob staff mounting. Shipping wt., 19 $\frac{1}{2}$ lbs. Each \$33.90



LEVELING ROD RIBBONS, \$1.00

85B2018—Tapered Octagon Ranging Poles. Made of best seasoned white pine, with metal shoe. Painted red and white alternately every foot, as shown in illustration. A strong and well made rod. Weight, each, 1 $\frac{1}{2}$ to 3 $\frac{1}{4}$ lbs. Length, 6 ft. Each \$8.40

Architect's Rod. With clamp and target. Brass mounted. Length, 5 $\frac{1}{2}$ ft., sliding out to 10 $\frac{1}{2}$ ft. Weight, 3 $\frac{1}{2}$ lbs.

85B2013—Divided in inches and $\frac{1}{2}$ in. Each \$4.85

85B2014—Divided in 10ths and 100ths ft. Each \$4.85

SURVEYOR'S 100-FOOT POLES WITH STEEL SHOE

85B2020—Can be used as a Pocket Leveling Rod or to reface the Philadelphia Rod. Clearly printed on a heavy, durable material. Width, 1 $\frac{1}{4}$ in. Graduated in feet, 10ths, and 100ths feet. Numbers run from the top down. Wt., 2 oz. Length, 12 $\frac{1}{2}$ ft. Each \$1.00

Length, 16 $\frac{1}{2}$ ft. Each \$1.30

Length, 20 $\frac{1}{2}$ ft. Each \$1.50

85B2050—Accurate Steel Pocket Tapes, with spring and stop. Automatic release by pressing button. Very attractive, flat metal case, nickel plated. Divided into inches and 16ths. A very convenient and accurate pocket or desk tape. The 3-ft. size is very popular with dressmakers. Weight, 2 to 3 oz.

85B2030—With hardwood reel, as shown. Wt., 2 lbs. **85B2031**—Without reel. Wt., 1 $\frac{1}{4}$ lbs. Each \$2.80

LINEN AND STEEL MEASURING AND SURVEYORS' TAPES

METALLIC LINEN TAPES LEATHER COVERED CASE

Strong steel case, covered with hard leather, hand sewed. With flush handle, and nickel trimming. Tape is $\frac{1}{4}$ in. wide. Best woven linen with bronze wires interwoven to prevent stretching and shrinking.

85B2035—Marked on one side in feet and tenths, and on the other side in links.

Size Feet	Wt., lbs.	Each
50	$\frac{1}{4}$	\$2.10
75	1	2.60
100	$1\frac{1}{4}$	3.25

85B2036—Marked on one side in feet and tenths, and on the other side in links.

Size Feet	Wt., lbs.	Each
50	$\frac{1}{4}$	\$2.10
75	1	2.60
100	$1\frac{1}{4}$	3.25

SURVEYORS' STEEL TAPES

HEAVY LEATHER CASE

Size Feet	Wt., oz.	Each
25	7	\$2.25
50	12	2.85
75	16	3.75
100	20	4.85

STANDARD TAPE LINE ENAMELED CASE

85B2042—Neat, strong brass bound enameled case, folding handle. Oiled linen tape, $\frac{1}{4}$ in. wide. A good, inexpensive tape for ordinary use. Marked in feet and inches.

Size Feet	Wt., oz.	Each
25	7	\$2.25
50	12	2.85
75	16	3.75
100	20	4.85

HEAVY LINEN TAPE LINE STITCHED LEATHER CASE

85B2044—Stitched leather case. Heavy linen cored tape, $\frac{1}{4}$ in. wide. Very serviceable. An excellent tape for ordinary use. Extensively used by carpenters, bricklayers, etc. Marked in feet and inches.

Size Feet	Wt., oz.	Each
25	8	\$1.05
50	16	2.10
75	24	3.15
100	32	4.20

STEEL POCKET TAPE LINE NICKEL PLATED CASE

ACCURATE LEVELS AND PLUMB BOBS—FINE VALUES

ADJUSTABLE PLUMBS AND LEVELS



85B2064—A high grade, first class level, made of polished cherry. Brass arch top plate, two side views, both ends are brass tipped. Adjustable. Note our Bargain Prices.

Length, inches 24 26 28 30
Weight, pounds 2½ 2¾ 2½ 3¼
Each (give size) 85c 86c 88c 90c

PLUMB AND LEVEL



85B2060—Made of cherry, with brass top plate, two side views. Non-adjustable. Length, 28 in. Weight, 2½ lbs. 75c Each 52c

THREE-PIECE LEVELS



85B2062—Made of three pieces of seasoned cherry, glued together and will not warp. Brass arch top plate, two side views. Adjustable. Both ends are brass tipped. Usual retail value, \$1.50. (Give size.)

Length, inches 26 28 30
Weight, pounds 2½ 2¾ 3
Each (give size) 98c 99c \$1.00

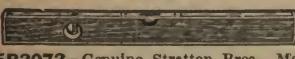
MAHOGANY LEVELS



85B2070—Genuine Stratton Bros. Built up of five pieces of finely selected mahogany, thoroughly glued and will remain straight and accurate. The corners are all brass bound, the metal being dovetailed into the wood. Fitted with accurate ground glasses, adjustable by means of a movable bar over the glass. Ornamental brass side views, heavy brass top and end plates, full brass bound. (Give size.)

Length | Weight | Each
26 in. | 3½ lbs. | \$4.90
28 in. | 3¾ lbs. | 5.00
30 in. | 3½ lbs. | 5.20

MAHOGANY LEVELS



85B2072—Genuine Stratton Bros. Made of one piece of selected Mexican mahogany. Adjustable. Brass bound corners, the metal being dove-tailed into the wood. Heavy brass top and end plates, full brass bound. True and accurate. (Give size.)

Length | Weight | Each
12 in. | 1½ lbs. | \$1.25
18 in. | 1¾ lbs. | 1.70
24 in. | 2 lbs. | 2.00
26 in. | 3¼ lbs. | 2.85
28 in. | 3½ lbs. | 2.90
30 in. | 3¾ lbs. | 2.95

MAHOGANY LEVEL



85B2074—With brass top plates, low side views, brass end plates, and improved adjustable level and plumb. A first class level at a low price. (Give size.)

Length | Weight | Each
12 in. | 7 oz. | 60c
18 in. | 13 oz. | 80c

STRATTON BROS. LEVELS ROSEWOOD.



85B2068—Built up of four pieces of choice rosewood around a core of mahogany. This construction prevents warping.

The corners are all brass bound, the metal being dovetailed into the wood. Each level is fitted with extra fine ground glasses (patent fluid) and adjusted with a movable bar over the glass. Ornamental brass side views, heavy brass top and end plates, full brass bound. (Give size.)

Length | Weight | Each
24 in. | 3½ lbs. | \$5.50
26 in. | 4 lbs. | 6.75
28 in. | 4½ lbs. | 5.85
30 in. | 4½ lbs. | 6.40

MASON'S PLUMB AND LEVEL



85B2080—Adapted for plumb and line. With arch top plate, two side views, adjustable. Length, 42 in. Weight, 2¾ lbs. Usual retail value \$1.25. Each 85c

STRATTON'S MASON'S LEVEL



85B2082—Mahogany finish, with double plumb, brass top plate, low cut side views; adjustable level and plumb, selected glasses. Usual retail value, \$1.75 each. (Give size.)

Length | Weight | Each
36 in. | 1½ lbs. | \$1.25
49 in. | 1½ lbs. | 1.28

SIGHT LEVELING STAND, \$2.60



85B2127—Stanley's No. 39. For distance leveling. Cast iron frame. Nickel plated support, with leveling screws. With 12 in. adjustable iron level, having two plumbs and a level, proved glasses. With level sights. Weight, 3¾ lbs. \$3.75 retail value. Each \$2.60

85B2128—Stand only. Wt., about 1½ lbs. Each 85c

MACHINISTS' IRON LEVELS



85B2090—Davis Patent adjustable, with double plumb. Carefully and accurately made and finished in black enamel. Usual retail value, \$2.25 to \$3.00 each. Strictly high grade. (Give size.)

Length, 12 in. Weight, 1½ lbs. Each \$1.65
Length, 18 in. Weight, 3 lbs. Each 1.90
Length, 24 in. Weight, 4 lbs. Each 2.25

ENGINEERS' IRON LEVEL



85B2098—Has a device which will give the rise and fall of piping or shafting without interfering with use of level for ordinary purposes. The slant of uprights can also be taken. Graduated by sixteenths up to ¼ in. The face and sides are accurately ground. With proved level glasses. Double plumb. Accurate. (Give size.)

Length | Weight | Each
12 in. | 1½ lbs. | \$2.00
24 in. | 3½ lbs. | 2.70

SAND'S ALUMINUM LEVELS



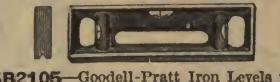
85B2097—Cast Aluminum. Strong yet light. With two plumbs and two levels. Works either end or edge up. Convenient and very accurate. Width, 2⅓ in. Thickness, 1⅓ in. Wts., 1½, 2⅓, 3 lbs. Each \$3.15 \$3.85 \$4.25



85B2094—Goodell's Patent Iron Level with double plumb, true and accurate (Give size.)

Length | Weight | Each
18 in. | 3½ lbs. | \$1.25
24 in. | 4½ lbs. | 1.40

GROOVED BASE IRON LEVEL



85B2105—Goodell-Pratt Iron Levels with V-shaped grooved base. Useful on shafting or similar work. Has milled faces and edges, double plumb. Accurate. (Give size.)

Length | Weight | Each
6 in. | 11 oz. | \$1.05
8½ in. | 16 oz. | 1.15
12 in. | 23 oz. | 1.25

IRON POCKET LEVELS



85B2114—May be fastened to a steel square or straight edge. Brass top plate. Length, 3 in. Wt., 3 oz. Each 10c

85B2096—Goodell-Pratt Iron Bench Level with double plumb, proved level glasses, milled faces, japanned body. True and accurate. (Give size.)

Length | Weight | Each
6 in. | 11 oz. | \$0.85
8½ in. | 16 oz. | 1.35
12 in. | 23 oz. | 3 oz.

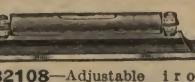
IRON BENCH LEVELS



85B2102—Milled faces and ends. Japanned body. (Give size.)

Length | Weight | Each
4 in. | 5 oz. | 52c
6 in. | 7 oz. | 52c

NICKEL PLATED LEVEL



85B2108—Adjustable iron on level. Base is accurately ground and level is finely nickel plated. (Give size.)

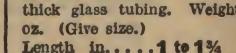
Length, 6 in.
Wt., 1 oz. Each \$1.00
Length, 8 in.
Wt., 20 oz. Each 1.20

SMALL WOOD LEVEL



85B2112—Brass lined on top. Length, 5 in. Width, ¾ in. Weight, 2 oz. Each 9c

LEVEL GLASSES



85B2130—Made of extra thick glass tubing. Weight, 1 oz. (Give size.)

Length in. 1 to 1½ 2
Each 3c 40

85B2118—Carefully made and accurate. (Give size.)

Length, about 2½ in.
Wt., 1 oz. Each 18c
Length, about 3½ in.
Wt., 1 oz. Each 25c

BRICK TROWELS, PLASTERING TROWELS AND CEMENT TOOLS

LAKESIDE PLASTERING TROWELS



85B2632—The blade is of the best quality steel, finely finished. The style of mounting and the easy manner in which this trowel fits the hand, shows its superiority with the expert. Weight, 14 to 16 oz. (Give size.)

Length, 10½ in. Weight, 14 oz. Each 75c
Length, 11 in. Weight, 15 oz. Each 80c
Length, 11½ in. Weight, 16 oz. Each 85c
Length, 12 in. Weight, 17 oz. Each 90c

LAKESIDE LEATHER HANDLE TROWEL



California Pattern

85B2625—Finest quality steel, highly polished. Fitted with real leather handles, affording a firm, easy grip. (Give size.)

Length, Blade, in. 10 10½ 11
Weight, oz. 95c 98c \$1.00

LAKESIDE STANDARD TROWEL



Philadelphia Pattern

85B2620—With square heel. Made of special steel, highly polished. Fitted with hardwood handles. (Give size.)

Length, blade, in. 10 10½ 11
Weight, oz. 70c 75c 80c

LAKESIDE LEATHER HANDLE TROWEL



New York Pattern

85B2624—Finest quality steel, highly polished. Fitted with real leather handles, affording a firm, easy grip. (Give size.)

Length, blade, in. 10 10½ 11
Weight, oz. 95c 98c \$1.00

LAKESIDE STANDARD TROWEL



London Pattern

85B2622—With round heel. Made of special steel, highly polished. Fitted with hardwood handles. (Give size.)

Length, blade, in. 10 10½ 11
Weight, oz. 70c 75c 80c

SIDEWALK GROOVERS



85B2680—Curved up at both ends. Nickel-plated iron. Size, 5½ x 2½ in. Wt., 1½ lbs. Each 28c

85B2682—Curved both ends. Nickel plated iron. Makes wide groove. Size, 9x3 in. Wt., 1½ lbs. Each 32c

SQUARE EDGER



85B2694—Nickel-plated iron. For finishing the edge of steps, etc. Makes a square edge. Size, 6x2½ in. Cutting edge, 1½ in. Weight, 1¼ lbs. Each 40c

STANDARD TROWELS



London Pattern

85B2628—Made of a good grade of steel, nicely finished. A good tool at our price. Give size.

Length, in. 10 10½ 11
Weight, oz. 40c 42c 45c

PHILADELPHIA PATTERN



Standard Brick

85B2629—Standard Brick Trowels, with square heel as shown. (Give size.)

Length, in. 10 10½ 11
Weight, oz. 40c 42c 45c

POINTING TROWELS



Standard Cast

85B2642—Standard Cast Steel. Curved at both ends, with curve of ¾ in. radius. Nickel-plated iron. Size, 6x2½ in. Wt., 18 oz. Each 29c

85B2644—Extra quality Lakeside brand. Wt., 3 to 4 ounces.

Length, in. 4 4½ 5
Width, in. 30c 32c 34c

BRICK CHISEL



Forged tool steel.

Width, 4 in. Wt., 1½ lbs. Each 40c

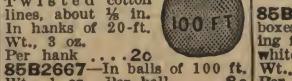
BRICK JOINTER



Polished steel.

round on one end, and square on the other. Very convenient. Length, 7½ in. Wt., 4 oz. Each 30c

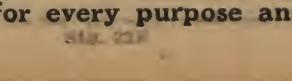
CHALK LINES



85B2666—Twisted cotton

lines, about ½ in. in hanks of 20 ft. Wt., 3 oz. Per hank 20c

CARPENTERS' CHALK



85B2664—In boxes containing

four cakes, white or blue. Wt., 3 oz. Per box 5c

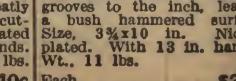
STEEL CENTER GROOVER



Steel center rib.

Curved at both ends. Increases durability and cutting qualities. Nickel-plated iron. Size, 3⅓ x 10 in. Wt., 1½ lbs. Each 40c

LINE ROLLER



Cast iron. Made with

grooves to the inch, leaving a bush hammered surface. Size, 3⅓ x 10 in. Nickel-plated. With 13 in. handle. Wt., 11 lbs. Each 52.15

QUALITY AND PRICE RECOMMEND THESE PLIERS

LAKESIDE STAPLE PULLER AND WIRE SPlicer



75c

Forged Steel, Finely Nickel Plated

85B2230—An extra heavy, finely finished, high grade tool. Combines, first, a staple puller; second, a double wire cutter; third, a double hammer, with no danger of breaking; fourth, a good wire splicer, for any kind of wire; fifth, a good pair of pincers; sixth, a good wrench for bolts, etc. Weight, 2 lbs. Convenient for hip pocket. Finely nickel plated. Usual retail value, \$1.25. Length, 10 in. Each..... 75c

OFFSET COMBINATION PLIERS



28c

Slip-Joint

Length, in. 6 8 10

Weight, oz. 8 10 16

Each 25c 35c 40c

85B2205—Will do all the work of the best ordinary plier and go into many out-of-the-way places where others will not. Forged steel. Knurled jaws grooved for pipe. Will cut wire. Joint will slip over for gripping large articles. Length, 7 in. Wt., 14 oz. Price, each..... 28c

Our price, each..... 75c

85B2180—Klein's pattern. With lap joint, beveled head. A decided favorite with electricians. Drop forged steel, finely finished and carefully tempered. Has a large opening in the back for cutting insulated wire. Length, 8 in.; weight, 14 oz. Usual retail value, \$1.25.

Our price, each..... 75c

85B2160—Forged steel, polished jaws. Wt., 2 to 5 oz. (Give size.) Price, each..... 16c

85B2161—High grade forged steel. Polished jaws. Weight, 2 to 4 oz. (Give size.) Length, in. 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 990 991 992 993 994 995 996 997 998 999 1000

CRONK'S COMBINATION PLIERS



55c

85B2208—With Wire Cutter. Carefully tempered steel. (Give size.) Length, 8 in. Wt., 11 oz. Price, each..... 55c

Length, 10 in. Wt., 20 oz. Price, each..... 72c

STEEL FENCE PLIERS



48c

85B2232—Drop forged steel, with two prongs for pulling staples. Combines a hammer, staple puller, wire cutter and wire splicer. A good tool at a low price. 48c value. Length, 10 in. Wt., 1 1/2 lbs. Price, each..... 48c

85B2203—Length, 5 in. Full polished. Wt., 8 oz. Price, each..... 35c

85B2204—Length, 7 in. Gun metal finish. Wt., 12 oz. Price, each..... 65c

85B2205—Will do all the work of the best ordinary plier and go into many out-of-the-way places where others will not. Forged steel. Knurled jaws grooved for pipe. Will cut wire. Joint will slip over for gripping large articles. Length, 7 in. Wt., 14 oz. Price, each..... 28c

Our price, each..... 75c

85B2206—Made of high grade tool steel, polished jaws, lap joint. An extra heavy strong pattern with wire cutter. A tool of exceptional merit. Usual retail value, 40c to 75c each. (Give size.)

Size, in. | Weight | Price, Each

6 in. | 8 oz. | 25c

8 in. | 12 oz. | 30c

10 in. | 1 1/2 lbs. | 40c

12 in. | 2 lbs. | 60c

14 in. | 3 lbs. | 80c

NAIL PULLERS—WRECKING BARS—TACK CLAWS

COLUMN NAIL PULLER

85B2380—With tool steel jaws. Cast iron handle. 7½ in. length, open, 23 in. Wt., 4½ lbs. Each 43c

CYCLOPS NAIL PULLER

85B2382—Forged tempered steel jaws. Cast handle. No spring to break. Handle on jaw saves hand from injury and guides jaw to the nail. Length, open, 23 in. Wt., 4½ lbs. Each 75c

JUMBO NAIL PULLER

85B2384—A high grade tool, with jaws and shanks forged from tool steel. Cast handle. The shank will not turn in handle. Has guard to protect the hand. Total length, open, 23 in. Wt., 4½ lbs. Each 98c

HEAVY STEEL WRECKING AND RIPPING BARS

FORGED OCTAGON STEEL 25c AND 30c



A Handy Bar for Ripping Shingles, Opening Boxes, Pulling Nails, etc. Forged from ¾ in. octagon steel. Strong wedge point at one end, and a powerful claw at other end. Regular 50c to 75c values. Note our Bargain Prices.

185B2386—Length, 24 in. Made of ¾ in. octagon steel. A convenient size for the carpenter, plumber, teamster, etc. Weight, 3¾ lbs. Each 25c

185B2387—Length, 30 in. Made of ¾ in. octagon steel. A large heavy tool for farmers, carpenters, etc. Weight, 4½ lbs. Each 30c

MARKING GAUGES AND ROOFING BRACKETS

DOUBLE BEAM GAUGE



85B2311—Two graduated steel beams, 4 and 8 in. Steel roller markers. Nickel-plated. Wt., ¾ lbs. Each 60c

BEECHWOOD GAUGE



85B2320—Oval beechwood bar and head. With thumb screw. Steel points, 8 in. Wt., 4 oz. Each 50c

TRIPLE BEAM GAUGE



85B2312—The three beams are of different lengths, 3, 4 and 8 in. All graduated. Cast steel. Nickel-plated. Wt., 1½ oz. Each 80c

TELESCOPING BEAM GAUGE



85B2315—Marking and Mortise Gauge. Graduated. Toothing on wood. Cast steel. White nickel finish. Length, 6½ in. Wt., 8 oz. Each 42c

CIRCULAR GAUGE



85B2317—Roller Gauge, for circles or straight work. Graduated. Toothing on wood. Cast steel. White nickel finish. Length, 8 in. Wt., 8 oz. Each 70c

PANEL GAUGE



85B2327—Made of beechwood. With boxwood thumb screws; oval bar. Length, 17 inches. A good tool at a low price. Wt., 8 oz. Each 15c

STEEL ROOFING BRACKET



85B2349—Stanley Brackets. Hold firmly. Quickly moved. Spring steel, japanned. Have steel prongs which imbed themselves in the roof, requiring no nails. Excellent for shingling. Size, 9x9 in. Wt., each, 1¼ lbs. Each 20c
Per doz. 25c

IMPROVED BUTT GAUGE



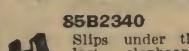
85B2330—Graduated to 2 inch. Two bars with steel cutters. Outer cutter for gauging on edge of door; inner cutter for gauging from back of jamb. Nickel-plated. Wt., 6 oz. Each 58c

ROSEWOOD GAUGE



85B2322—Brass thumb screw and shoe. Oval bar steel points. Length, 6 in. Wt., 6 oz. Each 50c

CLAPBOARD GAUGE



85B2340—Slips under the last clapboard. Clapboard can be placed on the upper gauge until nailed. Sets up to 4½ in. to the weather. Wt., 12 oz. Each 35c

CLAPBOARD MARKER



85B2342—For right or left hand. Cutters are parallel with the guides and beveled on one side only, insuring a close joint when sawed. Length, 8 in. Wt., 1 lb. Each 90c

CLAPBOARD MARKER



85B2331—Stanley's No. 94. For door hanging and mortising. Nickel-plated iron. Steel markers. Length, 3 in. Wt., 10 oz. Each 67c

STANLEY BUTT GAUGE



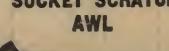
85B2332—Hardened double edge spurs. Cast iron. Nickel-plated. Length, 3½ in. Wt., 8 oz. Each 64c

COMBINATION BUTT GAUGE



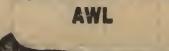
85B2334—Steel, nickel-plated. Use knife point. Size, 5½ in. Wt., 1 oz. Each 20c

STEEL BUTT GAUGE



85B2336—Steel, nickel-plated. Use knife point. Size, 5½ in. Wt., 1 oz. Each 32c

SOCKET SCRATCH AWL



85B2305—Polished steel blade, with socket for hardwood handle. A high grade attractive tool. Length, 7 in. Wt., 2 oz. Each 6c
Note—For chalk lines, see index.

CHALK LINE REEL

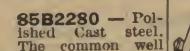


85B2308—Beechwood reel; length, 3 in., with steel scratch awl; length, 3½ in. Wt., 2 oz. Each 6c

Note—For chalk lines, see index.

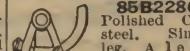
DIVIDERS, CALIPERS AND TRAMMEL POINTS

COMPASSES



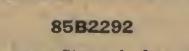
85B2280—Polished cast steel. The common well known form of compass. A good, low priced tool, and excellent value at our prices. Wt., 2 to 4 oz. (Give size.) Length, Each 10c
11c
12c
13c
15c

EXTENSION DIVIDERS



85B2286—Polished cast steel. Single leg. A lead pencil can be used in place of the movable point. Wt., 4 to 7 oz. (Give size.) Length, 6 in. Each 40c
48c
50c

DOUBLE CALIPERS



85B2292—Stamped from cold rolled steel. Bright finish. Riveted joint. Very convenient and inexpensive tool for taking ordinary inside and outside measurements. One end for inside, the other end for outside.

Size, 4 in. Wt., 2 oz. Each 12c

Size, 6 in. Wt., 2 oz. Each 14c

COMBINATION ANGLE DIVIDERS



85B2287—For mitre cuts, etc. Marked for 4, 6, 8 or 10 sided work. Head detachable. Nickel plated iron. Length, 7½ in. Width, 5 in. Wt., 10 oz. Each \$1.05

TRAMMEL POINTS



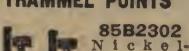
45c

WING CALIPERS



85B2294—Polished steel. With thumb screw. Weight, 4 and 6 oz. (Give size.) Length, 6 in. Each 18c
24c

OUTSIDE CALIPERS



85B2290—Polished cold rolled steel. A serviceable, inexpensive tool for taking ordinary measurements. Wt., 1 to 4 oz. (Give size.) Length, 6 in. Each 34c
48c

INSIDE CALIPERS



85B2291—Polished cold rolled steel. A serviceable, inexpensive tool for taking ordinary measurements. Wt., 1 to 2 oz. (Give size.) Length, 6 in. Each 14c
19c
25c

TRAMMEL POINTS



85B2302—Nickel-plated. Steel points. Fits any bar ¾ to 1½ inches wide. Points may be removed and a pencil used. Wt., 10 oz. Length, 6 in. Each 38c
\$1.50

REGISTERING CALIPERS



85B2296—Nickel-plated. For outside or inside. Length, 6 in. Each 50c

85B2297—Length, 6 in. Wt., 2 oz. Each 50c

STEEL STAMPS AND BRASS STENCILS

STEEL STAMPS

These steel stamps are extensively used for stamping names on wood, leather, metals, etc. Notice—Hand-made, of best tool steel. Prices are for one line stamps with any letters or figures desired. Mailed direct from factory. POSTAGE PAID.

285B2724—INITIAL STAMPS

Size 1/16 in. 20c
Size 1/8 in. 20c
Size 3/16 in. 25c
Size 1/4 in. 38c
Shipped from factory in Eastern Iowa

85B2725—NAME STAMPS

Per letter

Size 1/16 in. 15c
Size 1/8 in. 15c
Size 3/16 in. 20c
Size 1/4 in. 30c

Made to order and mailed to you, postage paid. Write plainly, like print, to avoid errors. Shipped from factory in Eastern Iowa

STEEL LETTERS AND FIGURES EXTRA QUALITY

FULL SIZE

1/16 IN.

1/8 IN.

1/4 IN.

3/8 IN.

1/2 IN.

5/8 IN.

3/4 IN.

7/8 IN.

1 IN.

1 1/8 IN.

1 1/4 IN.

1 1/2 IN.

1 1/4 IN.

MACHINISTS' HIGH GRADE SMALL STEEL TOOLS

SPRING DIVIDERS



85B2480—48c

Starrett's Yankee No. 83 with solid nut. Give size.

Size Wt. Each
in. oz.
3 1/2 .48c
4 2 .52c
5 3 .56c
6 4 .60c
8 6 .78c

SPRING DIVIDERS



85B2482—78c

Starrett's Fay Patent Spring Dividers, No. 77, with quick acting nut. Give size.

Size Wt. Each
in. oz.
3 1/2 .50-78
4 2 .52
5 3 .56c
6 4 .60c
8 6 .78c

SPRING DIVIDERS

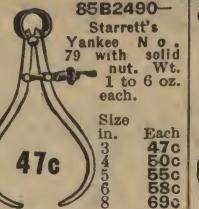


85B2484—51c

Massachusetts Tool Co. Spring Dividers, with quick acting spring nut. Give size.

Size Wt. Each
in. oz.
3 1/2 .50-78
4 2 .52
5 3 .56c
6 4 .60c
8 6 .78c

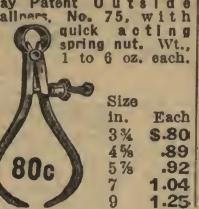
OUTSIDE CALIPERS



85B2490—
Starrett's Yankee No. 79 with solid nut. Wt. 1 to 6 oz. each.

Size Wt. Each
in. oz.
3 1/2 .47c
4 2 .50c
5 3 .55c
6 4 .60c
8 6 .70c

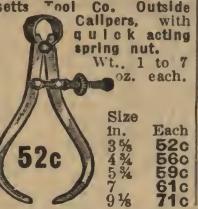
OUTSIDE CALIPERS



85B2492—
Starrett's Fay Patent Outside Calipers, No. 75, with quick acting spring nut. Wt. 1 to 6 oz. each.

Size Wt. Each
in. oz.
3 1/2 .47c
4 2 .50c
5 3 .55c
6 4 .60c
8 6 .70c

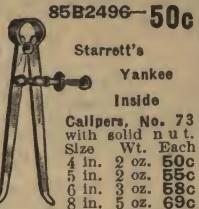
OUTSIDE CALIPERS



85B2494—
Massachusetts Tool Co. Outside Calipers, with quick acting spring nut. Wt. 1 to 7 oz. each.

Size Wt. Each
in. oz.
3 1/2 .52c
4 2 .56c
5 3 .59c
6 4 .61c
8 6 .68c

INSIDE CALIPERS



85B2496—50c

Starrett's Yankee Inside

Calipers, No. 73 with solid nut. Size Wt. Each
in. oz.
3 1/2 .50c
4 2 .53c
5 3 .56c
6 4 .61c
8 6 .68c

INSIDE CALIPERS



85B2498—88c

Starrett's Fay Patent Inside

Calipers, No. 74, with quick acting spring nut. Size Wt. Each
in. oz.
3 1/2 .50-88
4 2 .53-93
5 3 .56-104
6 4 .61-125

INSIDE CALIPERS

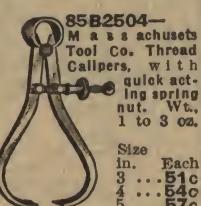


85B2499—

Mass. Tool Co. Inside Calipers, with quick acting spring nut. High grade.

Size Wt. Each
in. oz.
3 1 .50c
4 2 .52c
5 3 .60c
6 4 .64c
8 5 .70c

THREAD CALIPERS

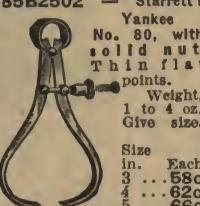


85B2504—

Mass. Tool Co. Thread Calipers, with quick acting spring nut. Wt. 1 to 3 oz.

Size Wt. Each
in. oz.
3 .51c
4 .52c
5 .60c
6 .64c
8 .70c

THREAD CALIPERS



85B2502—

Starrett's Yankee No. 80, with solid nut. Thin flat points.

Weight, 1 to 4 oz. Give size.

Size Wt. Each
in. oz.
3 .50c
4 .58c
5 .62c
6 .66c

LOCK-JOINT CALIPERS



85B2508—

Starrett's Yankee No. 80, with solid nut. Securely sensitive adjustment.

Finest tool steel, tempered and polished. Give size.

Size Wt. Each
in. oz.
3 .50c
4 .61c
5 .66c
10 .10 oz.

LOCK-JOINT CALIPERS

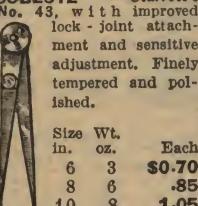


85B2510—

Starrett's No. 39. Sensitive, quickly adjusted and locks firmly. Finely tempered and polished. Weight, 2 to 8 oz. Give size.

Size Wt. Each
in. oz.
4 .61c
6 .67c
8 .86c
10 .10 oz.

LOCK-JOINT DIVIDERS



85B2512—

Starrett's No. 43, with improved lock joint attachment and sensitive adjustment. Finely tempered and polished.

Size Wt. Each
in. oz.
4 .61c
6 .70c
8 .85c
10 .105c

HERMAPHRODITE CALIPERS



85B2514—

Starrett's No. 41, with adjustable point, and improved firm joint. Finely tempered and polished.

Size Wt. Each
in. oz.
4 .24c
6 .35c
8 .49c

EXTENSION DIVIDERS



85B2516—

Starrett's No. 85, with caliper legs. Finely tempered and polished.

Size Wt. Each
in. oz.
1 .160c
9 .5 in.
Wt. 1/4 lbs. Each .180c

MACHINISTS' TOOL CHEST



Made of selected Red Gum or Hazel with mahogany panels, nicely polished. Brass locks, pull and hinges. All the drawers lock by closing the cover. Retail value, \$7 to \$10 each.

185B2800—With 2 drawers. Outside measurements, 24 in. long, 14 1/2 in. wide, 13 in. deep. Receptacle under lid, 21x11 1/2 in. First drawer, 20x10 1/2 in. Second drawer, 20x10 1/2 in. Third drawer, 20x10 1/2 in. Shipping weight, 30 lbs. Each. **\$5.50**

185B2802—With 3 Drawers. Outside measurements, 24 in. long, 14 1/2 in. wide, 13 in. deep. Receptacle under lid, 21x11 1/2 in. First drawer, 20x10 1/2 in. Second drawer, 20x10 1/2 in. Third drawer, 20x10 1/2 in. Shipping weight, 46 lbs. Each. **\$6.70**

185B2804—With 3 Drawers. Outside measurements, 30 in. long, 14 1/2 in. wide, 13 in. deep. Receptacle under lid, 27x11 1/2 in. First drawer, 26x10 1/2 in. Second drawer, 26x10 1/2 in. Third drawer, 26x10 1/2 in. Shipping weight, 52 lbs. Each. **\$7.95**

SEE INDEX FOR OTHER TOOL CHESTS

STARRETT'S COMBINATION SET



85B2525—Hardened Blades, Starrett's No. 9, with center head and 7 in. bivalve protractor. Each head may be instantly removed and replaced or used interchangeably with the scale. Blade, 9 in. Weight, 1 1/2 lbs. Per set. **\$2.68**

Blade, 12 in. Weight, 2 lbs. Per set. **2.85**

Blade, 18 in. Weight, 2 1/4 lbs. Per set. **3.40**

COMBINATION INCLINOMETER



\$3.45

85B2532—Starrett's Patent Inclinometer. Try Square and Bevel Protractor. No. 10. Sets at from 0 to 90 degrees. Blades, 12 in. Weight, 1 1/4 lbs. Each. **\$3.45**

BEVEL PROTRACTOR



\$2.00

85B2534—Starrett's No. 12. With tempered rule which can be held firmly at any point. Graduated, 0 to 90 degrees both ways, with clamping screw for holding at any angle. Give size.

Size Wt. Each
in. oz.
9 in. 1 lb. **\$2.00**
12 in. 1 1/2 lbs. **2.25**
18 in. 1 1/2 lbs. **2.60**
24 in. 1 1/2 lbs. **2.95**

GOODELL-PRATT TRY SQUARE



85B2535—Polished tempered blades. Nickel plated handles. Give size.

Blade Wt. Each
in. oz.
6 in. 5/8 lb. **\$0.84**
8 in. 1 1/4 lbs. **1.00**
10 in. 1 1/2 lbs. **1.18**

MACHINISTS' SQUARES, RULES AND GAUGES

DOUBLE SQUARE



85B2536—

Starrett's No. 13, with level and hardened blade. Give size.

Blade Wt. Each
in. oz.
4 in. 4 oz. **1.03**
6 in. 10 oz. **1.68**

COMBINATION BEVEL



85B2542—

Starrett's No. 49. Polished steel. Sets at any angle. Will lay flat. Length, 5 in. Weight, 4 oz.

Each. **\$1.68**

STEEL RULES



85B2550—

Starrett's No. 300. Accurate. Graduated as follows: First corner, 64ths; 2nd corner, 32nds; 3rd corner, 16ths; 4th corner, 8ths. Weights, 3/8 to 2 oz. each. Give size.

Size in. 2 3 4
Each. **1.8c 2.5c 3.30c**

STEEL HOOK RULES



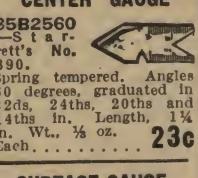
85B2554—

Starrett's No. 419. Convenient in taking measurements from round corners, through hubs of pulleys, etc. Thickness of rule, 3/64. Spring tempered, graduated in 8ths, 16ths, 32nds, and 64ths and in 32ds on opposite sides of one end. Give size.

Lengths, 6 in.; width, 1 in. Wt., 1 oz.

Each. **1.07c**

CENTER GAUGE



85B2560—

Starrett's No. 390. Spring tempered. Angles 60 degrees, graduated in 32ds, 24ths, 20ths and 14ths in. Length, 1 1/4 in. Wt., 1/4 oz.

Each. **2.3c**

SCREW PITCH GAUGE

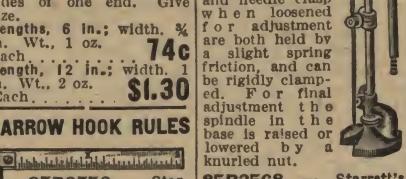


85B2563—

Starrett's No. 41. Has 22 pitches. Sizes 9 to 40 threads to the inch. Length, 2 1/2 in. Wt., 1 oz. Each. **.82c**

Each. **2.70c**

SURFACE GAUGE



85B2566—

Starrett's No. 40. Has 22 pitches. Sizes 9 to 40 threads to the inch. Length, 2 1/2 in. Wt., 1 oz. Each. **.81.68**

Each. **2.70c**

NARROW HOOK RULES



85B2566—

Starrett's No. 330. 3/4 inch wide, 18 gauge, spring tempered, graduated one corner each side, whole length in 32ds and 64ths. Wt., about 1/2 oz. Give size.

Size in. 2 3 4
Each. **.20c 30c 40c**

64ths. **40c 75c 95c**

NARROW RULES



85B2567—

Starrett's No. 330. 3/4 inch wide, 18 gauge, spring tempered, graduated one corner each side, whole length in 32ds and 64ths. Wt., about 1/2 oz. Give size.

Size in. 2 3 4
Each. **.40c 60c 80c**

64ths. **80c 98c 98c**

IMPROVED SCRIBER



85B2576—

Starrett's No. 67, nickel-plated, with long and short points. Length, with long point, 1 1/2 in. Wt., 1 oz. Each. **.35c**

Each. **1.5c**

MARKING AWLS



85B2577—

Made of steel, twisted with polished points. Length, with long point, 1 1/2 in. Wt., 1 oz. Each. **.15c**

Each. **.35c**

CALIPER PULP



85B2578—

Made of steel, graduated to 16ths and 32nds. Protractor reads to 1/4 degree.

Length, 6 1/4 in. Capacity, 0 to 3 1/2 in. by half-thousandths. Three anvils are furnished, measuring from 0 to 1 in., 1 to 2 in., 2 to 3 in. Patent locking device, hardened steel screw and screw. Give size

OUR STERLING TOOL CHEST

EACH TOOL STRICTLY FIRST-CLASS \$9.25



185B2770—A substantial chest, nicely finished and packed complete with an assortment of standard tools as illustrated. The chest is well made with blind dovetail corners, good lock and hinges, heavy handles, and sliding tray. Inside dimensions, 28x14x9 1/2 in. The tools are all selected from our regular stock, are of a strictly standard grade, suitable for everyday use. Shipping weight, 75 lbs. Regular \$12.50 retail value.

36 Pieces: Each Tool perfect. A first-class set in every particular.
1 Wood Jack Plane. 1 Bit Brace, 10 in. 1 Oil Stone, 8x2 in. 1 Pair Combination Pliers.
1 Iron Block Plane. 1 Screwdriver. 1 Rule, 2 ft. 1 Flat Mill File, 8 in. with handle.
1 Hand-Saw, Lakeside 1 Shingling Hatchet. 1 Carpenters' Pencil. 1 Slim Taper Saw File, 5 in. with handle.
1 2 in. 1 Monkey Wrench, 8 in. 1 Gimlet Bit, 2 1/2 in.
1 Compass Saw. 1 Steel Nail Hammer. 1 Ratchet Bit Brace. 1 Starrett's Nail Set.
4 Chisels, 1/4, 1/2, 1/2, 1/2 in. 1 Oli Can. 1 Small Cabinet Scraper.
4 Auger Bits, 1/4, 1/2, 1/2, 1/2 in. 1 Pocket Level, nickel-plated. 1 Monkey Wrench, 10 in.
2 Gimlet Bits. 1 Try Square, 6 in. 1 Round File, 6 in. 1 Lakeside Cold Chisel, 1/2 in. full polished.
1 Screwdriver Bit. 1 Marking Gauge. 1 Taper File, 5 in. 1 Box Assorted Brads, Small Nails, Tacks, etc.
1 Hollow Handle, with 1 Flat Cutting Pliers. 1 Nail Set. 1 Gross Assorted Wood Screws.
10 tools. 1 Can Glue. 100 Assorted Stove Bolts.
1 Spool Soft Steel Wire.

185B2770—Price, Chest and Tools Complete \$9.25

EMPTY TOOL CHEST

185B2771—Chest without tools. Shipping weight, 43 lbs. Ea. \$3.25

OUR LAKESIDE-QUALITY CHEST

EVERY TOOL HIGH QUALITY \$8.45



185B2775—A well selected assortment of thoroughly dependable tools, for the high grade mechanic or the householder. Each tool is the best of its class. Packed in a fine, hardwood chest, of a convenient size, fitted with Brass Corners and padlock.

The chest is a handsome piece of furniture, with its Brass Corners and varnished finish. Inside dimensions 27 1/2x8x4 in. Has a saw rack in the cover and partitions in one end for loose nails, screws, etc. Shipping weight, 94 lbs. Usual retail value, \$10.50 to \$12.00.

Contains the following first-quality tools:

1 Lakeside Hand Saw, 24 in. No. L 8, with skew back. 1 Pair Combination Pliers.
1 Lakeside Hammer, crucible steel, nickel-plated, octagon face and neck. 1 Flat Mill File, 8 in. with handle.
1 Lakeside Block Plane, 6 in. long, 1 1/2 in. cutter, adjustable throat, nickel-plated trimmings. 1 Slim Taper Saw File, 5 in. with handle.
1 Shingling Hatchet. 1 Carpenters' Pencil. 1 Gimlet Bit, 2 1/2 in.
1 Monkey Wrench, 10 in. 1 Small Cabinet Scraper.
1 Iron Spoke Shave. 1 Monkey Wrench, 8 in. 1 Lakeside Cold Chisel, 1/2 in. full polished.
1 Monkey Wrench, 8 in. 1 Ratchet Bit Brace. 1 Box Assorted Brads, Small Nails, Tacks, etc.
1 Steel Nail Hammer. 1 Perfect Handle Screwdriver, drop forged steel, 6 in. blade. 1 Gross Assorted Wood Screws.
1 Oli Can. 1 Can Liquid Glue. 1 Box Assorted Brads, Small Nails, Tacks, etc.
1 Pocket Level, nickel-plated. 1 Flat File, 6 in. 1 Box Assorted Brads, Small Nails, Tacks, etc.
1 Try Square, 6 in. 1 Round File, 5 in. 1 Box Assorted Brads, Small Nails, Tacks, etc.
1 Marking Gauge. 1 Taper File, 5 in. 1 Box Assorted Brads, Small Nails, Tacks, etc.
1 Flat Cutting Pliers. 1 File Handles. 1 Box Assorted Brads, Small Nails, Tacks, etc.
1 Nail Set. 1 Can Glue. 1 Box Assorted Brads, Small Nails, Tacks, etc.
1 Can Glue. 100 Assorted Stove Bolts.
1 Spool Soft Steel Wire.

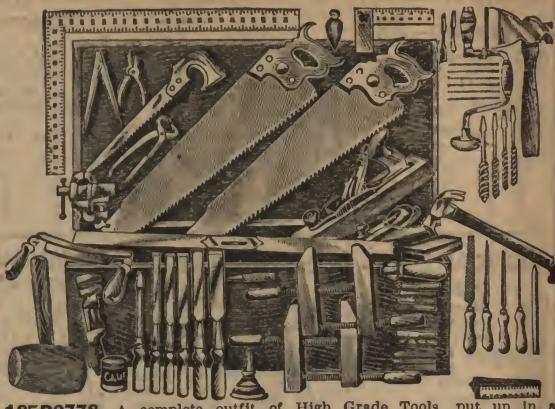
185B2775—Chest and Tools, complete \$8.45

EMPTY TOOL CHEST

185B2775—Chest and Tools, complete \$8.45

OUR DEFIANCE TOOL CHEST

51-PIECE TOOL SET \$14.60



185B2778—A complete outfit of High Grade Tools, put up in a strong, hardwood case, finely finished, with sliding tray, hinged cover, strong lock and handles. Each Tool perfect. A first-class set in every particular. Actual retail value, \$18.00.

The tools are all selected from our regular stock, first-class in every respect. Inside measurements of chest are 31 1/2x16x9 1/2 in. Shipping weight, 88 lbs.

1 Lakeside Hand Saw, 24 in. 1 Ratchet Bit Brace. 1 Flat File, 6 in.
1 Lakeside Rip Saw, 24 in. 1 Nail Set. 1 Round File, 6 in.
1 Small Iron Bench 1 Compass Saw. 1 Iron Block Plane.
1 Cast Steel Chisels, 1/4, 1/2, 1/4, 1/2 in. 1 Wood Bottom Jack 2 Wood Hand Screw Clamps.
1 Cast Steel Auger Bits, 1/4, 1/2, 1/4, 1/2 in. 1 Flat Cutting Pliers. 1 Taper File, 4 in.
1 Carpenter's Pencil. 1 Pair Compasses. 1 Taper File, 6 in.
1 Lakeside socket Firmer Chisels, extra quality, beveled edges, 1 File Handles.
1/4, 1/2, 1/4, 1/2 in. leather tipped handle. One each, 1 Plumb and Level.
1/4, 1/2, 1/4, 1/2 in. 1 Steel Square.
1 Gimlet Bits. 1 Counter Sink Bit. 1 Draw Knife, 8 in.
1 Screw Driver Bit. 1 Claw Hatchet. 1 Iron Plum Bob.
1 Hollow Handle Awl. 1 Heavy Mallet. 1 Carpenter's Pliers, 8 in.
1 Rule. 1 Rule. 1 Emery Oli Stone.
1 Can Glue. 1 Can Glue.

185B2778—Price, Chest and Tools, complete \$14.60

EMPTY TOOL CHEST

185B2779—Chest without tools. Shipping weight, 50 lbs. . . . 3.50

OUR ECLIPSE TOOL CHEST

COMPLETE 83-PIECE TOOL SET WITH CARPENTERS' HANDBOOK

\$24.90

Put up in a strong, hardwood chest, sliding trays, hinge cover and lock, finely finished. Just the thing for the mechanic or householder. Every item perfect. Usual retail value, \$30.00 to \$35.00.

Note the comprehensive list of tools below.



185B2782—A carefully assorted set of tools, all of a standard quality, packed in a handsome and commodious chest, made of selected ash and finely finished. Fitted with two sliding trays, saw rack and substantial lock and end handles. Corners are made with a blind dovetail, making a neat joint and handsome appearance.

The tools are taken from our regular stock, high grade and intended for hard, every-day use. Inside dimensions of chest are 31x16x14 in. Average shipping wt., 126 lbs.

83 Pieces. A complete high grade outfit in every detail, as follows:

1 Lakeside Hand Saw, L-100, 26 in. 1 Set of 13 Standard Auger Bits, 1/4 to 1 in. in. 1 Taper File, 5 in. 1 Plum Bob, Nickel-Plated.
1 Lakeside Rip Saw, L-8, 26 in. 1 Set Gimlet Bits (8) 1 Merrill Pat. Saw Set. 1 Marking Gauge.
1 Back-Saw, 10 in. 1 Counter Sink. 1 Steel Bench Stop.
1 Compass Saw, 10 in. 1 Screw-Driver Bit. 1 Drawing Knife, 10 in. 1 Cutting Pliers, nickel-plated.
1 Key-Hole Saw. 1 Iron Bench Vise. 1 Screw-Driver, 6 in. 1 Gas Pliers, 8 in.
1 Wood Bottom Smooth Plane. 1 Monkey Wrench, 8 in. 1 Spoke Shave. 1 Carpenter's Pliers, 8 in.
1 Wood Bottom Jack Plane. 2 Pair Wood Hand Hatchet.
1 Iron Block Plane. 1 Ratchet Bit Brace. 1 Lakeside Nail Hammer.
1 Coping Saw. 1 Hand Drill (6 drill points). 1 Hickory Mallet.
1 Hack Saw Frame and Blade. 1 Round File, 6 in. 1 Plum and Level.
1 Nail Set. 1 Half Round File, 8 in. 1 Rule.
1 Wood Mitre Box. 1 Flat File, 6 in. 1 Reel and Awl.
11 Lakeside Socket Fitter Chisels, 1/4 to 1 in. 1 Round File, 6 in. 1 Try Square, 6 in.
in. Including one Book Practical Carpentry, with Steel Square Supplement. Cloth bound, 200 pages, 7 1/2 in. by Fred T. Hodgson. \$24.90

185B2782—Price, Chest and Tools, complete

EMPTY TOOL CHEST

185B2783—Chest without tools. Shipping weight, 70 lbs. Each.

JENNING'S LITTLE WONDER TOOL KIT

185B2752—Consists of neatly finished hardwood case with separate tray. The handle on tray goes through cover and serves as a carrying handle. Contains 22 first-class tools. A very convenient outfit for the householder, mechanic and will give perfect satisfaction with every-day use. Tools are as follows:
4 Knob handle chisels, 1/4, 1/2, 1/2, 1/2 in. and 1 in.
1 Knob handle scratch awl. 1 Knob handle screw-driver, 2 1/2 in. 1 Knob handle tack claw. 1 Knob handle draw shave. 1 Screw-driver, 5 in. 1 Small saw. 1 Special brace. 2 Auger bits. 2 Gimlet bits. 1 Screw driver bit. 1 Countersink. 1 Square reamer. 1 Forged steel hammer. 1 Block plane. 1 Try square. 1 Two-ft. rule. Shipping weight, about 15 pounds. \$4.75

CARPENTERS' TOOL CASE SUIT CASE PATTERN \$6.60



185B2818—Holds 28 in. saws and full size squares. Made of selected, hardwood with panel sides, handsomely finished. Has brass lock, leather handle with rings for shoulder strap, metal clasps, metal corners and saw rack to hold four saws. Partitioned tray. Space in bottom. Outside measurements: Length, 34 1/4 in.; height, 17 in.; width, 6 in. Inside dimensions of tray: Length, 32 1/2 in.; height, 1 1/4 in.; width, 4 1/4 in. Shipping weight, 32 lbs. Each.

\$6.60

SHOULDER TOOL CHESTS

WITH ROUNDED BOTTOM EDGES \$3.35



185B2831—Selected chestnut with metal corners, and top handle for hand carrying. A good lock and key, and suit case fasteners. Well made throughout. Inside dimensions, 32x8x8 in. Shipping weight, 24 lbs. Each. \$3.35

\$2.15

ELECTRICIANS' TOOL CASE



185B2832—Standard Shoulder Chest, with locked corners, japanned end handles and key lock. Inside dimensions, about 32x8x8 in. Shipping weight, 24x2 1/2x5 in. Inside tray, 24x2 1/2x5 in. Shipping weight, 18 lbs. Each. \$2.95

NEW MODEL TOOL CHEST

SIZE, 32x18x18 in.
CONTENTS IN FULL \$7.90
VIEW WHEN OPEN

185B2825

Made of selected ash, thoroughly seasoned, kiln-dried. The great value of this chest lies in the fact that when the cover is open, all contests are readily accessible, avoiding all rummaging. Made with two drawers in bottom. Saw rack. Good lock, brass drawer pulls, and substantial end handles. All nicely finished and varnished. Inside measurements, 32x18x18 in. Shipping weight, 87 lbs. Each. \$7.90



Have you tried Coverall Paints? Go farther for less money.

41-PIECE TOOL CABINET \$10.95
USUAL RETAIL VALUE, \$15.00

FINE TOOLS IN HANDY CABINETS



185B2748—TOOL CABINET, made of solid oak, finely finished with strong hinges and lock. We include a wire clip or holder for every tool. Cabinet has a drawer in bottom for nails, screws, etc. The tools are carefully selected for practical use and are strictly high grade in every respect. Designed to meet the demand for a good outfit such as is required by a mechanic or a householder. The cabinet can be hung on the wall or carried about by the top handle. Outside dimensions, 30x18x8½ in. Ship. wt., 56 lbs.

41 PIECES. A FINE, COMPLETE ASSORTMENT

Hand Saw, 22 in.
Keyhole Saw.
Coping Saw (12 blades).
Steel Claw Hammer.
Riveting Hammer.
Iron Block Plane.
Bit Brace, 8 in., nickel-plated.
Iron Spoke Shave.
Try Square, 6 in.
Marking Gauge.
Combination Pliers.
Gas Pliers.
Dividers.
Screw Driver, 4 in.
blade.
Screw Driver, 6 in.
blade.
Chisels, ¾, ½, ¾ in.
bevel edge.
Auger Bits, ¾, ½, ¾ in.
in lower drawer.
Price, Oak Cabinet and Tools, complete, Ship Wt., 56 lbs..... \$10.95

50-PIECE TOOL CABINET \$17.45

INCLUDING CARPENTERS' HANDBOOK



185B2744 — A fine, complete set of high grade tools, with a fine oak cabinet with double doors and large drawer in bottom for nails, screws, etc. Fitted with strong hinges and lock. Occupies but little space and provides a convenient and proper place for every tool. Outside dimensions of cabinet, 30x25x8½ in.

1 Hand-Saw, 22 in.
1 Rip-Saw, 22 in.
1 Claw Hammer.
1 Riveting Hammer.
1 Iron Block Plane.
1 Wood Bottom Jack Plane.
1 Compass Saw.
1 Ratchet Brace, 10 in., Nickel Pl.
1 Iron Spoke Shave.
1 Hand Drill (6 drills).
1 Hack Saw and Blade.
1 Carpenter's Pincers.
1 Oil Stone.
1 Oil Can.
6 Sheets Sand Paper.
1 Can Glue.
1 Lot Assorted Nails, Screws, Tacks, etc., in lower drawer.

1 Auger Bit, 14 in.
3 Gimlet Bits.
1 Counter Sink.
1 Screw Driver Bit.
1 Nail Set.
1 Tack Claw.
3 Chisels, ¾, ½, ¾ in., bevel edge.
1 Marking Gauge.
1 Screw - Driver, 4 in., blade.
1 Saw File and Handle.
1 Combination Driver, 6 in., blade.
1 Try Square, 6 in.
1 Rule, 2 ft.
1 Iron Spoke Shave.
1 Counter Sink Bit.
1 Expansion Bit, ¾ in. to 1½ in.

1 Screw-Driver Bit.
1 Oil Stone.
1 Gas Pliers.
1 Oil Can.
1 Dividers.
1 Saw File and Handle.
1 Flat File and Handle.
1 Round File and Handle.
1 Combination Pliers.

1 Nail Set.
1 Tack Claw.
1 Hack Saw Frame and Blade.
1 Oil Can.
1 Hand Drill (6 Drills).
1 Saw File and Handle.
1 Monkey Wrench.
1 Pocket Level.
1 Flat File and Handle.
1 Reamer Bit.
1 Glass Cutter.
1 Tinner's Snips.
1 Carpenter's Pinocer.

1 Soldering Copper.
1 Draw Knife.
1 Coping Saw (12 blades).
1 Iron Wrench Vice.
1 Cabinet Scraper.
1 Carpenter's Pencil.
6 Sheets Sand Paper.
1 Can Glue.
1 Lot Assorted Screws, Nails, Tacks, etc., in lower drawer.

1 Nail Set.
1 Screw Driver Bit.
1 Drawing Knife.
1 Nail Hammer.
1 Rock Hammer.
1 Rule.
1 Pair Combination Pliers.
1 Glass Cutter.
1 Mitre Square.
1 Tool Handle and Counter Sink.

The saws are packed in a canvas case, and all of the tools are first quality. Carpenters, and Householders as well, will find this a very desirable and convenient set. Shipping wt., 26 lbs. Usual retail value, \$15.00. Price, case and tools, complete.

\$12.10

185B2744—Oak Cabinet and Tools, Complete . . . \$17.45

Including 1 book, Practical Carpentry, with Steel Square Supplement. Cloth bound, 200 pages, size 5½x7½ in. By Fred T. Hodgeson.

HOME TOOL CABINET—28 Pieces

185B2740 — Handsome solid oak wall cabinet, finely finished. With strong hinges and lock, and a drawer in bottom for nails, screws, etc. The tools are all high grade. A very popular outfit. Outside dimensions: height, 24 in.; width, 16 in.; depth, 5½ in. Shipping weight, 38 lbs. Retail value, \$10.00 and up. Contains the following first quality tools:

1 Hand Saw, 18 in.
1 Steel Hammer.
1 Iron Block Plane.
1 Bit Brace, nickel-plated.
1 Iron Spoke Shave.
1 Try Square, 6 in.
1 Marking Gauge.
1 Combination Pliers.
1 Flat Pliers.
1 Divider.
1 Screw Driver, 6 in.
2 Chisels, ¾, ½ in.
3 Auger Bits, ¾, ½, ¾ in.

185B2740—Price, \$7.95

OUR STAR TOOL SET

185B2768 — The tools in this set are all of a good Standard Grade, selected with a view to furnishing the most necessary tools for use about the house and farm. Packed in a plain pine box. Shipping weight, 17½ lbs. The following standard tools:

1 Steel Shingling Hatchet.
1 Steel Hammer.
1 Screw Driver Bit.
1 Fule, 2 ft.
1 Oil Stone.
1 Oil Can.
1 Tack Claw.
1 Hollow Tool Handle (10 tools).
1 Nail Set.
1 Saw File and Handle.
1 Can Glue.
1 Lot Assorted Nails, Tacks, etc., in bottom drawer, complete.



Price, Complete \$2.75

A Convincing Value at a Remarkably Low Price. Each Tool Will Give Good Service.

OIL STONES FOR EDGE TOOLS

RUBY WASHITA

Ruby Washita Oil Stones are reddish white of a smooth, uniform texture, and free from grit. Suitable for all kinds of tools.

85B2420 — Size, about 1x2x½ in. Average weight, 1 lb. Each 35c

85B2421 — Size, about 8½ x 2 x 1 in. Average weight, 1½ lbs. Each 40c

NO. 1 WHITE WASHITA

Perfectly white, free from grit, and are excellent quick-cutting stones of a medium grit for general work.

85B2424 — Size, about 5 x 2 x 1 in. Average weight, 14 oz. Each 25c

85B2425 — Size, about 8 x 2 x 1½ in. Average weight, 1½ lbs. Each 40c

MOUNTED RUBY WASHITA

Mounted Ruby Washita Oil Stones fitted in a handsome hardwood box, with cover.

85B2428 — Size stone, about 6 in. x 2 in. Average weight, 1 lb. Each 40c

85B2431 — Size stone, about 6 in. x 2 in. Average weight, 1½ lbs. Each 45c

85B2432 — Size stone, about 7 in. x 2 in. Average weight, 1½ lbs. Each 50c

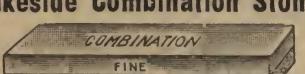
85B2433 — Size stone, about 8 in. x 2 in. Average weight, 1½ lbs. Each 55c

85B2434 — No. 1 White Washita Gouge Slips, with round edges. Lengths vary from 3½ to 5 in. Weight, 2 to 6 oz. Each 15c

85B2435 — Extra Washita Gouge Slips, with round edges. Smooth grit. Lengths vary from 3 to 5 in. Wt., 2 to 7 oz. Each 20c

85B2436 — MONTGOMERY WARD & CO. CHICAGO

Lakeside Combination Stone



Made with two grits. Coarse side for sharpening, fine side for finishing. Reddish brown color. Composed of emery and corundum. Unexcelled for putting a fine edge on all kinds of tools. Packed in a neat pasteboard box.

85B2464 — Size, 6x2x1 in. Wt., 1 lb. Each 30c

85B2465 — Size, 8x2x1 in. Wt., 1½ lbs. Each 40c

185B2468 — Price, \$7.95

Lakeside Perfection Stone



85B2468 — A fine high grade stone. Made of an electric abrasive, hard and sharp as a diamond. Rapid cutting and of a uniform grit. Has a coarse face for dull tools and the other side of a fine grit for putting on a keen, sharp edge. Gives best results when used with a thin non-gumming oil. Size, 8x2x1 in. Average wt., 1¼ lbs. Each 85c

85B2469 — Price, \$7.95

MOUNTED NO. 1 WHITE WASHITA



Fitted in a handsome hardwood covered box. Smooth even texture.

85B2430 — Size stone, about 6 in. x 2 in. Average weight, 1 lb. Each 75c

85B2431 — Size stone, about 6 in. x 2 in. Average weight, 1½ lbs. Each 80c

85B2432 — Size stone, about 7 in. x 2 in. Average weight, 1½ lbs. Each 85c

85B2433 — Size stone, about 8 in. x 2 in. Average weight, 1½ lbs. Each 90c

85B2434 — No. 1 White Washita Gouge Slips, with round edges. Lengths vary from 3½ to 5 in. Weight, 2 to 6 oz. Each 15c

85B2435 — Extra Washita Gouge Slips, with round edges. Smooth grit. Lengths vary from 3 to 5 in. Wt., 2 to 7 oz. Each 20c

85B2436 — MONTGOMERY WARD & CO. CHICAGO

UNMOUNTED AUTO-KUT STONES.



A good stone for general purposes. Can be used with oil or with water.

85B2450 — Size, about 7x2x7/8 in. Average wt., 1 lb. Each 14c

85B2451 — Size, about 8x2x1 in. Average wt., 1½ lbs. Each 20c

85B2452 — Size, about 8x2x1 in. Average wt., 1½ lbs. Each 25c

85B2453 — Size, about 8x2x1 in. Average wt., 1½ lbs. Each 30c

85B2454 — Size, about 8x2x1 in. Average wt., 1½ lbs. Each 35c

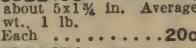
85B2455 — Size, about 8x2x1 in. Average wt., 1½ lbs. Each 40c

85B2456 — Size, about 8x2x1 in. Average wt., 1½ lbs. Each 45c

85B2457 — Size, about 8x2x1 in. Average wt., 1½ lbs. Each 50c

85B2458 — Price, \$7.95

MOUNTED AUTO-KUT STONES.



Mounted in polished wood covered box.

85B2442 — Size, stone, about 5½ x 1 in. Average wt., 1 lb. Each 20c

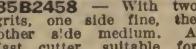
85B2443 — Size, stone, about 6x2 in. Average wt., 1½ lbs. Each 24c

85B2444 — Size, stone, about 8x2x1 in. Average wt., 1½ lbs. Each 30c

85B2445 — Size, stone, about 8x2x1 in. Average wt., 1½ lbs. Each 35c

85B2446 — Price, \$7.95

SOFT ARKANSAS OIL STONES.



Fitted in a handsome hardwood box, with cover.

85B2447 — Size stone, about 6 in. x 2 in. Average weight, 1 lb. Each 75c

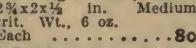
85B2448 — Size stone, about 6 in. x 2 in. Average weight, 1½ lbs. Each 80c

85B2449 — Size stone, about 7 in. x 2 in. Average weight, 1½ lbs. Each 85c

85B2450 — Size stone, about 8 in. x 2 in. Average weight, 1½ lbs. Each 90c

85B2451 — Price, \$7.95

EMERY OIL STONES.



Fitted in a handsome hardwood box, with cover.

85B2452 — Size stone, about 6 in. x 2 in. Average weight, 1 lb. Each 75c

85B2453 — Size stone, about 6 in. x 2 in. Average weight, 1½ lbs. Each 80c

85B2454 — Size stone, about 7 in. x 2 in. Average weight, 1½ lbs. Each 85c

85B2455 — Size stone, about 8 in. x 2 in. Average weight, 1½ lbs. Each 90c

85B2456 — Price, \$7.95

AXE STONES.

Fitted in a handsome hardwood box, with cover.

85B2457 — Size stone, about 6 in. x 2 in. Average weight, 1 lb. Each 75c

85B2458 — Size stone, about 6 in. x 2 in. Average weight, 1½ lbs. Each 80c

85B2459 — Size stone, about 7 in. x 2 in. Average weight, 1½ lbs. Each 85c

85B2460 — Size stone, about 8 in. x 2 in. Average weight, 1½ lbs. Each 90c

85B2461 — Price, \$7.95

SOFT ARKANSAS SLIPS.

Fitted in a handsome hardwood box, with cover.

85B2462 — Size, about 6 in. x 2 in. Average weight, 1 lb. Each 75c

85B2463 — Size, about 6 in. x 2 in. Average weight, 1½ lbs. Each 80c

85B2464 — Size, about 7 in. x 2 in. Average weight, 1½ lbs. Each 85c

85B2465 — Size, about 8 in. x 2 in. Average weight, 1½ lbs. Each 90c

85B2466 — Price, \$7.95

EMERY SLIPS.

Fitted in a handsome hardwood box, with cover.

85B2467 — Size, about 6 in. x 2 in. Average weight, 1 lb. Each 75c

85B2468 — Size, about 6 in. x 2 in. Average weight, 1½ lbs. Each 80c

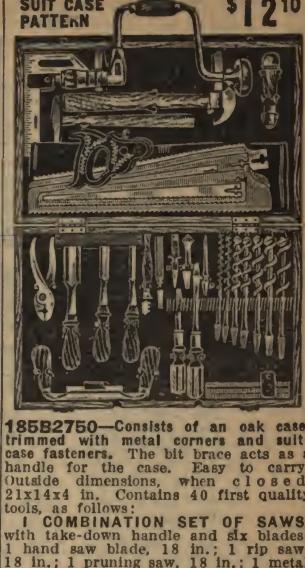
85B2469 — Size, about 7 in. x 2 in. Average weight, 1½ lbs. Each 85c

85B2470 — Size, about 8 in. x 2 in. Average weight, 1½ lbs. Each 90c

85B2471 — Price, \$7.95

Riverside Tires and Tubes are built for mileage and service.

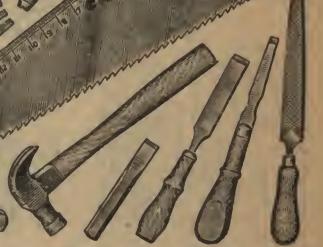
JENNINGS' TOOL CASE
SUIT CASE PATTERN
\$12.10



185B2750 — Consists of an oak case, trimmed with metal corners and suit-case fasteners. The bit brace acts as a handle for the case. Easy to carry. Outside dimensions, when closed, 21x14x4 in. Contains 40 first quality tools, as follows:

1 COMBINATION SET OF SAWS, with take-down handle and six blades; 1 hand saw blade, 18 in.; 1 rip saw, 18 in.; 1 pruning saw, 18 in.; 1 metal cutting saw, 14 in.; 1 compass saw, 14 in.; and keyhole saw blade, 12 in., all fitting the one handle.

7 AUGER BITS, 1 Gimlet Bit, 1 Screw Driver Bit, 1 Dividers, 1 Drawing Knife, 1 Nail Hammer, 1 Rock Hammer, 1 Rule, 1 Pair of Combination Pliers, 1 Glass Cutter, 1 Can Glue, 1 Lot Assorted Screws, Nails, Tacks, etc., in lower drawer.



1 Pair of Combination Pliers, 1 Glass Cutter, 1 Mitre Square, 1 Tool Handle and Counter Sink.

The saws are packed in a canvas case, and all of the tools are first quality. Carpenters, and Householders as well, will find this a very desirable and convenient set. Shipping wt., 26 lbs. Usual retail value, \$15.00. Price, case and tools, complete.

\$12.10

Very Convenient.
Contains 24 Well Chosen Tools of the Highest Quality

High Grade Auto Tool Roll

85B2760 — Tool Kit containing 24 high grade tools. Every tool first class in every respect. Packed com-

1 Perfect handle machinist's hammer, 5 drop forged steel wrenches taking from ¾ to 1 in.

1 hand punch, 10 in., 1 Dudley combination wrench, 9 in., 1 Stillson pipe wrench, 10 in., 1 flat mill file, 8 in., 1 chain nose pliers, 5½ in. with side cutter, 1 flat mill file, 6 in., 1 machine punch, 1 cotterpin extractor, 1 hand punch, complete.

1 round file, 6 in., with 1 prick punch, 1 center punch, 1 drop forged cold chisel, ¾ in., 1 drop forged cold chisel, ½

RAVENSWOOD DESIGN WELL PROPORTIONED



\$4.65

Cylinder Front Door Lock. Solid Bronze Trimmings. Mortise Lock, $5\frac{1}{2} \times 3\frac{1}{2}$ in. Heavy bronze bolts, front and strike. Bronze cylinder and 3 flat keys, operating both bolts from outside. 1 pair $2\frac{1}{4}$ in. knobs, swivel spindle. 1 Escutcheon 10 $\frac{1}{2}$ x 2 $\frac{1}{2}$ in. 1 Escutcheon 7 $\frac{1}{2}$ x 2 $\frac{1}{2}$ in. with bolt turn. With screws. Reversible. Great value. Weight, 5 $\frac{1}{2}$ lbs.

85B3064-C finish. Each \$4.65

80c

\$1.15

Bit Key Front Door Lock. Solid Bronze Trimmings on C finish. Mortise Lock 5 $\frac{1}{2}$ x 3 $\frac{1}{2}$ in. Heavy bronze bolts, front and strike. 1 pair 2 $\frac{1}{4}$ in. knobs, swivel spindle. 3 steel bit keys which operate both bolts from outside and lock bolt from inside. 1 outside Escutcheon 9 $\frac{1}{2}$ x 2 $\frac{1}{2}$ in. 1 inside Escutcheon 1 $\frac{1}{2}$ x 1 $\frac{1}{2}$ in. and Rose for knob. With screws. Reversible. Excellent value.

85B3066-C finish. Each \$1.75

65c

Turn Door Bell. Solid Bronze Front and 3 in. nickel plated bronze Gong, ready to attach. Size, 3 $\frac{1}{2}$ x 1 $\frac{1}{2}$ in. A high grade, thoroughly well made Turn Door Bell. An ornament to any door.

Note—

Plate is of solid bronze, therefore

will not rust; the gong is of

soft Bit keys, which

operate both bolts

from outside and

lock bolt from inside.

1 Escutcheon 9 $\frac{1}{2}$ x 2 $\frac{1}{2}$ in. 1 Escutcheon 8 $\frac{1}{2}$ x 2 $\frac{1}{2}$ in. Complete with screws. Reversible. Fine values.

85B3070-C finish. Single \$1.15

85B3070-C Double \$1.75

Per doz. \$9.25

85B3069-L finish. Each \$0.35

85B3071-L finish. Single 85c

85B3071-L Double 65c

85B3071-L Wt. 10 oz.

85B3072-C finish. Each \$4.00

85B3072-C Wt. 10 oz.

85B3073-C finish. Each \$1.75

85B3073-C Wt. 6 lbs.

85B2874-E finish. Each \$1.75

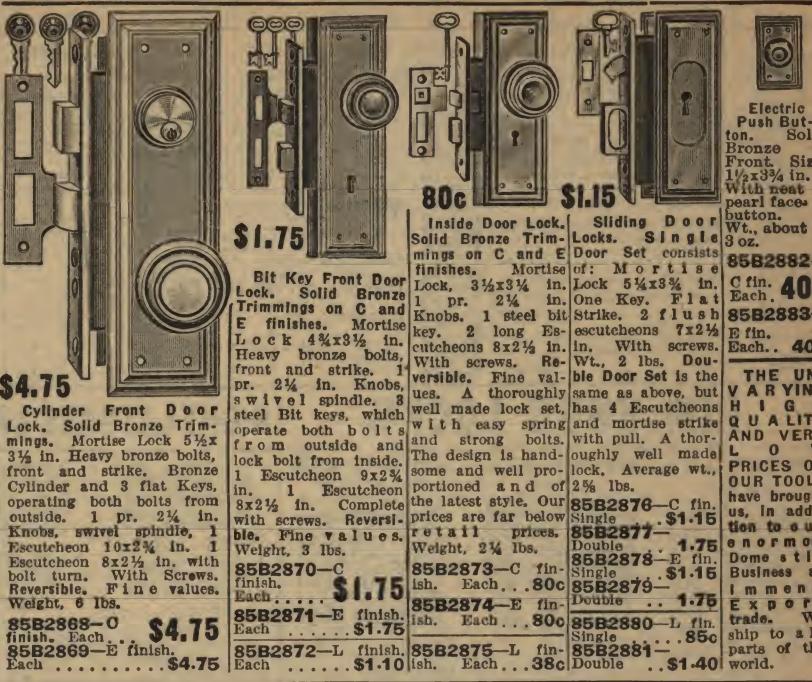
85B2874-E Wt. 6 lbs.

85B2875-L finish. Each \$1.10

85B2875-L Wt. 3 lbs.

85B2875-L Double \$1.40

GLENDALE DESIGN VERY GRACEFUL



80c

\$1.15

Inside Door Lock.

Solid Bronze Trim-

mings on C and E

finishes. Mortise

Lock, $5\frac{1}{4} \times 3\frac{1}{2}$ in.

One Key. Flat

Strike, 2 flush

escutcheons 7 $\frac{1}{2}$ in.

With screws. Re-

versible. Fine val-

ues. A thoroughly

well made lock set,

with easy spring

and strong bolts.

The design is hand-

some and well pro-

pportioned and of

the latest style. Our

prices are far below

retail prices.

85B2876-C fin-

ish. Single \$1.15

85B2877-E fin-

ish. Single \$1.15

85B2878-C fin-

ish. Each \$0.80

85B2879-E fin-

ish. Each \$0.80

85B2880-L fin-

ish. Each \$0.80

85B2881-E fin-

ish. Each \$0.80

85B2875-L fin-

ish. Each \$0.80

85B2875-L Double \$1.40

Electric Push But-ton. Bronze Front. Size, $1\frac{1}{2} \times 3\frac{1}{4}$ in. With neat pearl face button.

Wt., about 3 oz.

85B2882-C fin-

ish. Each \$0.40

85B2883-E fin-

ish. Each \$0.40

THE UN-

VARYING

HIGH

QUALITY

AND VERY

LOW

PRICES OF

OUR TOOLS

have brought

us, in addition

to our

enormous

Business an-

imense

Export

trade. We

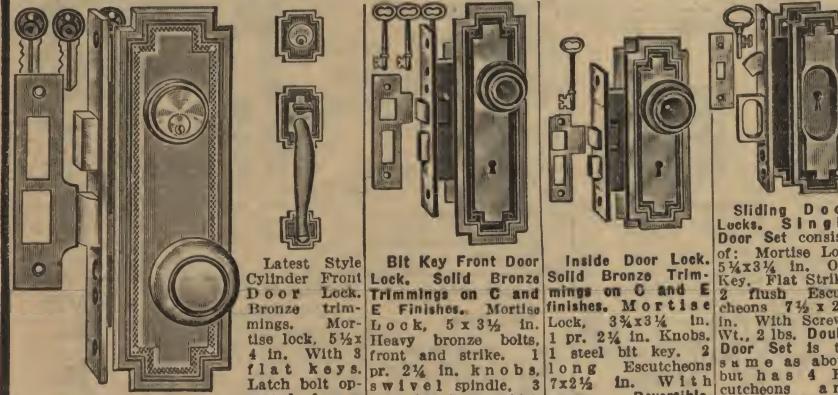
ship to all

parts of the

world.

OAKDALE DESIGN

NEAT MISSION EFFECT



Cylinder Front Door Lock. Solid Bronze Trimmings. Mortise Lock, $5\frac{1}{2} \times 3\frac{1}{2}$ in. Heavy bronze bolts, front and strike. Bronze Cylinder and 3 flat keys, operating both bolts from outside. 1 pair $2\frac{1}{4}$ in. knobs, swivel spindle. 1 Escutcheon 10 $\frac{1}{2}$ x 2 $\frac{1}{2}$ in. 1 Escutcheon 7 $\frac{1}{2}$ x 2 $\frac{1}{2}$ in. with bolt turn. With Screws. Reversible. Fine values. Weight, 5 lbs.

85B2850-C finish. Each \$4.75

85B2851-E finish. Each \$4.75

85B2852-C finish. Each \$4.75

85B2853-E finish. Each \$4.75

85B2854-C finish. Each \$1.75

85B2855-E finish. Each \$1.75

85B2856-L finish. Each \$1.75

85B2857-C finish. Each \$1.75

85B2858-E finish. Each \$1.75

85B2859-L finish. Each \$1.75

85B2860-L finish. Each \$1.75

Bit Key Front Door Lock. Solid Bronze Trimmings on C and E Finishes. Mortise Lock, $5\frac{1}{2} \times 3\frac{1}{2}$ in. Heavy bronze bolts, front and strike. 1 pair $2\frac{1}{4}$ in. knobs, swivel spindle. 3 steel bit keys which operate both bolts from outside by pressing handle. Size, out-side, when attached, 13 $\frac{1}{2}$ in. Inside Escutcheon with bolt turn, 7 $\frac{1}{2}$ x 2 $\frac{1}{2}$ in. Complete with screws. Reversible. Fine values. A thoroughly well made lock set with easy spring and strong bolts. The design is handsome and well proportioned and of the latest style. Our prices are far below retail. Weight, 2 $\frac{1}{2}$ lbs.

85B2854-C finish. Each \$1.75

85B2855-E finish. Each \$1.75

85B2856-L finish. Each \$1.75

85B2857-C finish. Each \$1.75

85B2858-E finish. Each \$1.75

85B2859-L finish. Each \$1.75

85B2860-L finish. Each \$1.75

Inside Door Lock. Solid Bronze Trimmings on C and E Finishes. Mortise Lock, $5\frac{1}{2} \times 3\frac{1}{2}$ in. Heavy bronze bolts, front and strike. 1 pair $2\frac{1}{4}$ in. knobs, swivel spindle. 3 steel bit keys which operate both bolts from outside and lock bolt from inside. 1 outside Escutcheon, 10 $\frac{1}{2}$ x 2 $\frac{1}{2}$ in. Complete with screws. Reversible. Fine values. A thoroughly well made lock set with easy spring and strong bolts. The design is handsome and well proportioned and of the latest style. Our prices are far below retail. Weight, 2 $\frac{1}{2}$ lbs.

85B2861-C finish. Each \$1.75

85B2862-E finish. Each \$1.75

85B2863-C finish. Each \$1.75

85B2864-L finish. Each \$1.75

85B2865-E finish. Each \$1.75

85B2866-C finish. Each \$1.75

85B2867-C finish. Each \$1.75

85B2868-C finish. Each \$1.75

85B2869-C finish. Each \$1.75

85B2870-C finish. Each \$1.75

85B2871-C finish. Each \$1.75

85B2872-C finish. Each \$1.75

85B2873-C finish. Each \$1.75

85B2874-C finish. Each \$1.75

85B2875-C finish. Each \$1.75

85B2876-C finish. Each \$1.75

85B2877-C finish. Each \$1.75

85B2878-C finish. Each \$1.75

85B2879-C finish. Each \$1.75

85B2880-C finish. Each \$1.75

85B2881-C finish. Each \$1.75

85B2882-C finish. Each \$1.75

85B2883-C finish. Each \$1.75

85B2884-C finish. Each \$1.75

85B2885-C finish. Each \$1.75

85B2886-C finish. Each \$1.75

85B2887-C finish. Each \$1.75

85B2888-C finish. Each \$1.75

85B2889-C finish. Each \$1.75

85B2890-C finish. Each \$1.75

85B2891-C finish. Each \$1.75

85B2892-C finish. Each \$1.75

85B2893-C finish. Each \$1.75

85B2894-C finish. Each \$1.75

85B2895-C finish. Each \$1.75

85B2896-C finish. Each \$1.75

85B2897-C finish. Each \$1.75

85B2898-C finish. Each \$1.75

85B2899-C finish. Each \$1.75

85B2900-C finish. Each \$1.75

85B2901-C finish. Each \$1.75

85B2902-C finish. Each \$1.75

85B2903-C finish. Each \$1.75

85B2904-C finish. Each \$1.75

85B2905-C finish. Each \$1.75

85B2906-C finish. Each \$1.75

85B2907-C finish. Each \$1.75

85B2908-C finish. Each \$1.75

85B2909-C finish. Each \$1.75

85B2910-C finish. Each \$1.75

85B2911-C finish. Each \$1.75

85B2912-C finish. Each \$1.75

85B2913-C finish. Each \$1.75

85B2914-C finish. Each \$1.75

85B2915-C finish. Each \$1.75

85B2916-C finish. Each \$1.75

85B2917-C finish. Each \$1.75

85B2918-C finish. Each \$1.75

85B2919-C finish. Each \$1.75

85B2920-C finish. Each \$1.75

85B2921-C finish. Each \$1.75

85B2922-C finish. Each \$1.75

85B2923-C finish. Each \$1.75

</div

FINE VALUES IN DEPENDABLE STORE DOOR LOCKS

STORE DOOR HANDLES

(With Cylinder Lock)

Set comprises: One mortise cylinder lock, size, $5\frac{1}{4} \times 3\frac{1}{4}$ in., as shown in center of this row; lock is reversible; three keys; two solid bronze handles and two solid bronze plates, size $1\frac{1}{4} \times 3\frac{1}{4}$ in. A fine, high grade lock set. Wt., 6 lbs.

85B3150—Genuine Polished Bronze (A-finish.)

Per set \$5.50

85B3151—Same set in C-finish, antique copper, polished.

Per set \$5.50

85B3152—Same set in E-finish, dull lemon brass.

Per set \$5.50

STORE DOOR HANDLES

(With Flat Key Lock)

Set comprises: One mortise cylinder lock (see separate descriptions); two solid bronze handles, with large genuine bronze plates, size $3 \times 14\frac{1}{4}$ in., and two flat keys. Wt., 4 $\frac{1}{2}$ lbs.

85B3154—Polished Antique Copper (C-finish) on genuine bronze.

Per set \$3.25

85B3155—Same set in E-finish. Dull lemon brass. Set \$3.25

L-Finish

85B3156—Same set in wrought steel. L-finish. Antique copper, polished.

Per set \$1.75

STORE DOOR HANDLE

(With Flat Key Lock)

85B3164—Wroughtsteel (L-finish), antique copper, polished. Set comprises: One mortise lock (see separate description); two heavy handles, with large plates, about 3×12 in., weight, 3 $\frac{1}{2}$ lbs. Size of lock, about $4\frac{1}{2} \times 3$ in. Set \$1.65

MORTISE STORE DOOR LOCK

(With Flat Key Lock)

85B3160—Cast iron (L-finish) Antique copper, polished. Set comprises: One mortise store door lock (see separate description in center of this row). Two heavy handles and plates. Size, about 3×15 in. Reversible. Wt., 5 $\frac{1}{2}$ lbs. Per set \$2.45

STORE DOOR HANDLE

(With Flat Key Lock)

85B3166—Cast iron (H-finish) Bronze plated. Black background with polished raised surface. Set comprises: One mortise lock (see separate description in center of this row). Two heavy handles and plates. Size, about $2\frac{1}{2} \times 12$ in. Wt., 3 $\frac{1}{2}$ lbs. Per set \$1.75

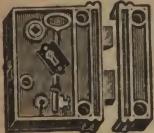
STORE DOOR HANDLE

(With Flat Key Lock)

85B3168—(H-finish). Oblique handle. Iron, bronze plated. Polished raised surface. For right or left hand doors. Size of plate, $2\frac{1}{2} \times 9\frac{1}{2}$ in. With screws, Wt., 1 $\frac{1}{2}$ lbs. Per set \$3.50

RIM KNOB LOCKS

RIM KNOB LOCK Cast Iron



85B3180—Reversible Upright Rim Locks. Size, $3\frac{1}{2} \times 3\frac{1}{4}$ in. With iron bolts. Tinned key. Japanned escutcheons. With screws. Weight, 1 $\frac{1}{2}$ lbs. Without knobs. Doz. \$1.10
Each 10

RIM KNOB LOCK Cast Iron



85B3182—Reversible Upright Rim Lock. Size, $3\frac{1}{2} \times 3\frac{1}{4}$ in. With iron bolts. Tinned key. Japanned escutcheons. With screws. Weight, 1 $\frac{1}{2}$ lbs. Without knobs. Doz. \$2.70
Each 24

RIM KNOB LOCK Wrought Steel



85B3185—Reversible, Wrought Steel, Upright Rim Lock. Size, 4×3 in. With stop, iron bolt, and brass key. With nickel plated brass key. Japanned escutcheons. With screws. Weight, 1 $\frac{1}{2}$ lbs. Without knobs. Doz. \$2.05
Each 24c

NIGHT LATCHES AND MORTISE LOCKS

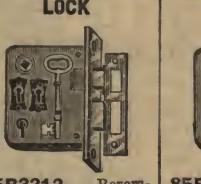
TUBULAR NIGHT LATCH

85B3206—Size, 3×2 in. For doors, up to 1 $\frac{1}{2}$ in. Japanned. With 2 flat steel keys. Brass knob and cylinder. For doors $\frac{3}{4}$ to $2\frac{1}{2}$ in. Bolt may be fastened back on the inside. With regular and reverse bevel strike. With screws. Wt., 1 $\frac{1}{2}$ lbs. Excellent value. Each 75c

CYLINDER NIGHT LATCH

85B3208—Japanned iron case. Size, 2×3 in. Brass knob and cylinder. For doors $\frac{3}{4}$ to $2\frac{1}{2}$ in. Bolt may be fastened back on the inside. With regular and reverse bevel strike. With screws. Wt., 1 $\frac{1}{2}$ lbs. Each 98c

MORTISE KNOB LOCK



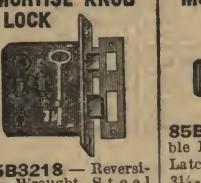
85B3210—Reversible Mortise Lock. Size, $3 \times 3\frac{1}{4}$ in. With polished iron front, brass bolts, nickel plated steel key. Weight, 1 $\frac{1}{2}$ lbs. (Without knobs.) Each \$0.25

MORTISE KNOB LOCK



85B3214—Reversible Mortise Lock. Size, $3 \times 3\frac{1}{4}$ in. With polished iron front, brass bolts, nickel plated steel key. Weight, 1 $\frac{1}{2}$ lbs. (Without knobs.) Each \$0.17

MORTISE KNOB LOCK



85B3218—Reversible Wrought Steel Mortise Lock. Size, $3 \frac{1}{2} \times 3\frac{1}{4}$ in. Iron front, bolt and strike plate, nickel plated steel key. Weight, 1 $\frac{1}{2}$ lbs. (Without knobs.) Each 70c

MORTISE KNOB LOCK



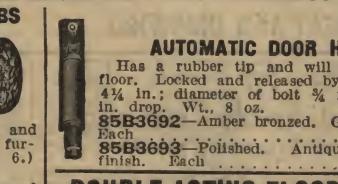
85B3220—Reversible Iron Mortise Knob Latch. Size, $1\frac{1}{2} \times 3\frac{1}{4}$ in. Iron front, bolt and strike plate, same as the preceding. Cannot be used with a key. Weight, 5 oz. (Without knobs.) Each 1.40

MORTISE KNOB LOCK



85B3221—Reversible Mortise Knob Latch. Size, $1\frac{1}{2} \times 3\frac{1}{4}$ in. Brass front, bolt and strike plate, bronze bolt, otherwise same as the preceding. Cannot be used with a key. Weight, 5 oz. (Without knobs.) Each 1.40

MORTISE KNOB LOCK



85B3222—Reversible Mortise Knob Latch. Size, $1\frac{1}{2} \times 3\frac{1}{4}$ in. Brass front, bolt and strike plate, bronze bolt, otherwise same as the preceding. Cannot be used with a key. Weight, 5 oz. (Without knobs.) Each 1.40

LATCHES AND DOOR PULLS

PLATED PULL 12c EACH

85B3210—Japanned iron case. Size, 3×1 in. 2 steel keys. Brass knob and cylinder. For doors $\frac{3}{4}$ to $2\frac{1}{2}$ in. Bolt may be fastened back on the inside. With regular and reverse bevel strike. With screws. Wt., 1 $\frac{1}{2}$ lbs. Each 98c

IRON THUMB LATCH 8c EACH

85B3272—Heavy Cast Iron Thumb Latch. Japanned black. With screws. Length, 7 $\frac{1}{2}$ in. Weight, 15 oz. Per set 8c
Per doz. sets 90c

HEAVY LATCH



85B3274—Heavy Steel Mortise Lock. Size, $3 \times 3\frac{1}{4}$ in. With polished iron front, brass bolts, nickel plated steel key. Weight, 1 $\frac{1}{2}$ lbs. (Without knobs.) Each 250c

IRON THUMB LATCH

85B3270—Ornamental. Iron Thumb Latch. Cast iron, dark bronze finish. With screws. Length of handle, 11 inches. Bar, 12 in. Wt., 2 $\frac{1}{2}$ lbs. With screws. Weight, set, 7 oz. Per set 70c
Per doz. sets 70c

PLATED PULL 8c Dozen

85B3265—Japanned Steel Wire Pulls for screen doors, etc. May be used as a lift for screens or light windows. Weight, each, 1 oz. Length, 4 $\frac{1}{2}$ in. Per doz. 20c
Per doz. 200c

PLATED PULL 7c Each

85B3262—Cast Iron Door Pull. Bronze plated. H. finish. Length, 6 $\frac{1}{2}$ in. With screws. Wt., 3 oz. Each 7c

DOOR HOLDERS

LITTLE GIANT DOOR HOLDER

Locked and released by foot. Will not injure polished floors. Case, $1\frac{1}{2} \times 4$ in. Wt., 14 oz.

85B3692—Amber bronzed. G. finish. Each 250c

85B3691—Antique copper finish. L. finish. Each 320c

We've reached almost the half century mark in business; and might be supposed to know about all there is to know about conducting our affairs—but we don't. We are constantly changing and improving. Our service, for instance, has seen some big changes the past year or two. It's a regular time-table schedule with us now; we get over nine-tenths of our orders out on a 4 or 5-hour service basis. We are perfecting other plans, too, for handling your orders to still greater satisfaction. We should like to make our service perfect. That being impossible, we are trying to be as nearly perfect as we can; and that means constant striving.

Noiseless Surface Spring Hinge. Ball bearing steel hangers with vulcanized fibre wheels. Run easily. Are practically noiseless. Easy to install and adjust. Cannot jump the track. Directions with each set. Prices include the hollow steel track, stops, floor guide, stops and screws.

185B3708—For single doors. Give size. Opening, ft. 3 4 5 6
Ship. wt., lbs. 9 $\frac{1}{2}$ 11 $\frac{1}{4}$ 12 $\frac{1}{4}$ 13 $\frac{1}{4}$
Per set \$1.65 \$1.85 \$2.10 \$2.53

185B3710—For double doors. Give size. Opening, ft. 4 5 6 7
Ship. wt., lbs. 2 $\frac{1}{2}$ 2 $\frac{1}{2}$ 2 $\frac{1}{2}$ 2 $\frac{1}{2}$
Per set \$3.15 \$3.22 \$3.24 \$3.47

**STEEL PARLOR DOOR HANGERS
EASY RUNNING AND NOISELESS**
Easy to put up, and quickly adjusted. Steel hanger. Steel wheels with hard fibre tread. Runs on brass bushings. Requires no oiling. Impossible to derail. No cutting necessary on door. Hardwood rail in heavy steel channel. Notched 6 and 12 in. from ends. Desired lengths obtainable by sawing wood and breaking steel. With Hangers, Screws, Roller Guides, Stops, and Track.

185B3702—Double Door Set. With 14-ft. track. Shipping weight, 20 lbs. Set. \$3.00

185B3704—Single Door Set. With 8-ft. track. Shipping weight, 9 $\frac{1}{2}$ lbs. Set. \$1.50

ECLIPSE DOOR SPRINGS



Tuscan bronzed. For right or left hand doors. Tension is adjustable. Directions included.

85B3720—For ordinary inside or light outside doors. Weight, 4 $\frac{1}{2}$ lbs. Each 90c

85B3721—For heavy outside doors. Weight, 5 $\frac{1}{2}$ lbs. Each 1.75

ECLIPSE DOOR CHECK



With detachable feet. For door casing. Adjustable for light or heavy draft. Lacquered brown.

85B3722—For ordinary doors. Diam. of cylinder, 1 $\frac{1}{4}$ in. Wt., 2 $\frac{1}{2}$ lbs. Each \$1.20

85B3723—For heavy doors. Diam. of cylinder, 2 $\frac{1}{4}$ in. Wt., 5 lbs. Each \$1.60

LIQUID DOOR CHECK AND SPRING



Quietly and automatically closes the door and keeps it under control, on either right or left hand doors. Has an automatic regulating valve. Anti-freezing liquid oil, also serves as a perfect lubricant. Gold bronze finish.

85B3726—Size A. For light inside doors and screen doors. Weight, 6 lbs. Each \$2.60

85B3727—Size B. For medium inside doors. Weight, 8 $\frac{1}{2}$ lbs. Each \$3.10

85B3728—Size C. For heavy inside doors, and outside doors up to 2 ft. 8 in. by 1 $\frac{1}{4}$ in. Weight, 10 $\frac{1}{2}$ lbs. Each \$3.65

85B3729—Size D. For heavy doors, up to 3 ft. Weight, 7 ft. by 2 in. Weight, 13 $\frac{1}{2}$ lbs. Each \$4.40



Floor Spring Hinges. Ball bearing.

Floor Spring Hinges, double acting, to swing both ways. Ball Bearing. Each hinge is carefully inspected and adjusted to the proper tension. Each hinge adjustment can be changed without removing the door. Easy acting and noiseless. Price includes bottom hinge, top socket and screws. Wt., to 12 lbs. Give size and finish.

85B3674—Ivory Finish Each \$1.05

85B3675—Black Finish Each \$0.85

85B3676—K. Finish Plated Each \$0.85

85B3677—L. Finish Antiqued Copper Each \$1.30

85B3678—L. Finish Plated Each \$1.45

85B3679—L. Finish Antiqued Copper Each \$1.55

85B3680—L. Finish Antiqued Copper Each \$1.90

WINDOW HARDWARE, PULLEYS AND SASH CORD

SASH FASTENERS

Cast Iron



Wt., doz., 3 lbs.

85B3330—G finish.

Plain bronzed iron, brown color.

Per dozen 35c

85B3332—L finish.

Iron, antique copper

finish. Per dozen 42c

85B3334—M finish.

Iron, antique copper, dull sand finish.

Per dozen 25c

85B3336—C finish.

Solid bronze, antique copper finish, polished. Wt., each, 4 oz.

Each 25c

Per dozen 2.75

SASH FASTENERS

Wrought Steel



Solid wrought steel. Will

not break. Draws the top

and bottom sash tightly

together. Wt., doz., 3 lbs.

85B3340—G finish.

Amber bronzed.

Per dozen 35c

85B3341—K finish.

Polished antique copper

plated. Each 60

Dozen 700

SASH FASTENERS

Cast Iron



Wt., doz., 3 lbs.

85B3345—G finish.

Ogee tipped ornamental

iron.

Per dozen 43c

SASH FASTENERS

Cast Iron



Wt., doz., 3 lbs.

85B3348—G finish.

Ornamental iron, bronzed

bell tip.

Per dozen 52c

SASH FASTENERS

Cast Iron



Wt., doz., 3 lbs.

85B3349—G finish.

Antique copper

finish on iron.

With screws. Wt., 2 oz.

Doz. \$1.45 Each 13c

Per dozen 2.80

SASH FASTENERS

Cast Iron



Wt., doz., 3 lbs.

85B3350—G finish.

Bronzed iron, brown

finish. Per dozen 40c

85B3352—L finish.

Iron, antique copper, dull

sand finish.

Per dozen 2.50

85B3353—M finish.

Cast iron. Antique copper

finish. Wt., per doz., 1 lb.

Each 48c

85B3354—Reversible

for right or left hand.

Size, 1½x1½ in.

Wt., each, 4 oz.

85B3357—(L finish.)

Polished antique copper

finish on iron.

Per dozen 1.10

85B3358—(K finish.)

Polished bronze finish on

iron. Per dozen 1.10

85B3359—(C finish.)

Cast iron. Antique copper

finish. Wt., per doz., 1 lb.

Each 1.10

85B3360—(G finish.)

Polished bronze plated.

Dozen 700

Each 60

85B3361—L finish.

Polished antique copper

plated. Each 60

Dozen 700

85B3362—(L finish.)

Antique copper

plated. Per doz. 43c

85B3363—(C finish.)

Cast iron. Polished

bronze. Wt., per doz., 1 lb.

Each 43c

85B3364—(L finish.)

Antique copper

finish. With screws.

Wt., 2 oz. Each 50c

Per dozen 55c

85B3365—(L finish.)

Antique copper

finish. With screws.

Wt., 2 oz. Each 50c

85B3366—(L finish.)

Antique copper

finish. With screws.

Wt., 2 oz. Each 50c

85B3367—(L finish.)

Antique copper

finish. With screws.

Wt., 2 oz. Each 50c

85B3368—(L finish.)

Antique copper

finish. With screws.

Wt., 2 oz. Each 50c

85B3369—(L finish.)

Antique copper

finish. With screws.

Wt., 2 oz. Each 50c

85B3370—(L finish.)

Antique copper

finish. With screws.

Wt., 2 oz. Each 50c

85B3371—(L finish.)

Antique copper

finish. With screws.

Wt., 2 oz. Each 50c

85B3372—(L finish.)

Antique copper

finish. With screws.

Wt., 2 oz. Each 50c

85B3373—(L finish.)

Antique copper

finish. With screws.

Wt., 2 oz. Each 50c

85B3374—(L finish.)

Antique copper

finish. With screws.

Wt., 2 oz. Each 50c

85B3375—(L finish.)

Antique copper

finish. With screws.

Wt., 2 oz. Each 50c

85B3376—(L finish.)

Antique copper

finish. With screws.

Wt., 2 oz. Each 50c

85B3377—(L finish.)

Antique copper

finish. With screws.

Wt., 2 oz. Each 50c

85B3378—(L finish.)

Antique copper

finish. With screws.

Wt., 2 oz. Each 50c

85B3379—(L finish.)

Antique copper

finish. With screws.

Wt., 2 oz. Each 50c

85B3380—(L finish.)

Antique copper

finish. With screws.

Wt., 2 oz. Each 50c

85B3381—(L finish.)

Antique copper

finish. With screws.

Wt., 2 oz. Each 50c

85B3382—(L finish.)

Antique copper

finish. With screws.

Wt., 2 oz. Each 50c

85B3383—(L finish.)

Antique copper

finish. With screws.

Wt., 2 oz. Each 50c

85B3384—(L finish.)

Antique copper

finish. With screws.

Wt., 2 oz. Each 50c

85B3385—(L finish.)

Antique copper

finish. With screws.

Wt., 2 oz. Each 50c

85B3386—(L finish.)

Antique copper

finish. With screws.

Wt., 2 oz. Each 50c

85B3387—(L finish.)

Antique copper

finish. With screws.

Wt., 2 oz. Each 50c

85B3388—(L finish.)

Antique copper

finish. With screws.

Wt., 2 oz. Each 50c

85B3389—(L finish.)

Antique copper

finish. With screws.

Wt., 2 oz. Each 50c

85B3390—(L finish.)

Antique copper

finish. With screws.

Wt., 2 oz. Each 50c

85B3391—(L finish.)

Antique copper

finish. With screws.

Wt., 2 oz. Each 50c

85B3392—(L finish.)

Antique copper

finish. With screws.

Wt., 2 oz. Each 50c

85B3393—(L finish.)

Antique copper

finish. With screws.

Wt., 2 oz. Each 50c

85B3394—(L finish.)

Antique copper

finish. With screws.

Wt., 2 oz. Each 50c

85B3395—(L finish.)

DOOR BUTTS AND SMALL HINGES

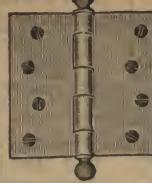
PLATED STEEL DOOR BUTTS



Loose Pin. Smooth surface. Two finishes. Both same price. With screws. **85B3600**—Antique copper. **85B3602**—Lemon brass.

Size in.	Wt. pr. oz.	Doz. prs.	Per pr.
2 x 2	5	\$1.15	10c
2 1/2 x 2 1/2	8	1.15	11c
3 x 3	12	1.35	12c
3 1/2 x 3 1/2	19	1.40	13c
4 x 4	26	1.90	17c

EXTRA QUALITY STEEL BUTTS



Highly finished. Extra polished. Loose pin. Two finishes. Both same price. With screws. **85B3605**—Antique copper. **85B3607**—Lemon brass.

Size in.	Wt. pr. oz.	Doz. prs.	Per pr.
2 x 2	5	\$2.25	20c
2 1/2 x 3 1/2	12	2.80	27c
3 x 3	19	3.00	32c
3 1/2 x 3 1/2	29	3.45	31c
4 x 4	45	5.30	46c

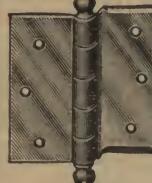
JAPANNED STEEL DOOR BUTTS



85B3608—Wrought steel. Black japanned. Ball tips. Loose pin, packed complete. With screws to match.

Size in.	Wt. pr. oz.	Doz. prs.	Per pr.
2 1/2 x 2 1/2	8	9c	\$1.05
3 x 3	12	11c	1.12
3 1/2 x 3 1/2	20	11c	1.20
4 x 4	24	13c	1.48
4 1/2 x 4 1/2	24	13c	2.00
5 x 5	45	23c	2.95

HALF MORTISE STEEL BUTTS



Reversible with screws. Two finishes. Both same price. **85B3618**—Antique copper. **85B3620**—Dull Lemon brass.

Size in.	Weight per pair	Per pair	Dozen pair
3	1 lb.	20c	\$2.20
3 1/2	1 1/2 lbs.	28c	2.60
4	2 lbs.	32c	3.20

LIGHT LOOSE PIN BUTTS



85B3625—Wrought Steel Butts (L finish). Antique copper finish. For cabinet work, china closets, doors, etc. Wt. pair, 4 and 6 oz., with screws. **85B3630**—Lemon brass.

Size, open	Per doz.	Per pair
2 x 2 1/2	\$1.10	100
2 1/2 x 3 1/2	1.20	120

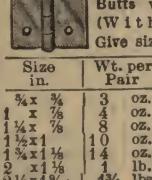
NARROW STEEL BUTTS



Beveled Edges. **85B3630**—Wrought Pol. Antique copper. Fast joint. With screws. Wt. pair, 4 to 6 oz. Length, 2 in. Pair, 7c. Doz. pair, 73c. Length, 2 1/4 in. Per pair, .80c. Per pair, .9c. Doz. pairs, .88c.

Size, open	Per doz.	Per pair
2 x 2 1/2	\$1.10	100
2 1/2 x 3 1/2	1.20	120

LAUNDRY TUB HINGES



85B3640—Galvanized Wrought Steel. With brass pins. Wt. pair, 4 and 8 oz. Give size. Length of joint, in. 1 1/2 to 2. Per pair, 10c. Doz. pairs, .80c. Per doz. sets, .85c.

CHEST HINGES



85B3642—Wrought Steel. (With out screws.) Wt. pair, 5 and 9 oz. Give size. Size, 1 1/4 in. 2 in. Per pair, 4c. Doz. pairs, .57c.

WROUGHT BRASS BUTTS



85B3645—Brass Butts with fast joint. (With out screws.) Give size.

Size, Open	Size of Screws	Per Pair	Per doz. Pairs
3 x 2 1/2	No. 10	5c	\$0.52
3 x 3	No. 10	6c	.58
3 1/2 x 3 1/2	No. 11	8c	.80
4 x 4	No. 11	9c	1.04
4 1/2 x 4 1/2	No. 12	12c	1.30

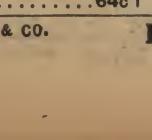
LIGHT NARROW BUTTS



85B3634—Plain Wrought Steel. Loose pin. Without screws. Wt. pair, 1 to 5 oz. Give size. Per pair, .80c. Per pair, .9c. Doz. pairs, .88c.

Size, Open	Size, Open	Size, Screw	Per doz.	Per pr.
1 1/2 x 2 1/2	5	22c	2c	
1 1/2 x 2 1/2	6	25c	3c	
2 x 2 1/2	6	27c	3c	
2 1/2 x 3 1/2	6	30c	4c	
2 1/2 x 3 1/2	6	36c	4c	
3	52c	5c		

WROUGHT STEEL BACK FLAPS



85B3638—Without screws. Wt. pair, 2 to 8 oz. Give size. Per dozen pairs, .95c.

Width, In.	Lghth, Open	Screw No.	Doz., Prs.	Per Pr.
2 1/2	2 1/2	6	22c	3c
2 1/2	2 1/2	6	23c	3c
2 1/2	2 1/2	6	25c	3c
2 1/2	2 1/2	6	30c	4c
2 1/2	2 1/2	6	36c	4c
2 1/2	2 1/2	6	52c	5c

WEATHER STRIP AND THRESHOLDS

RUBBER WEATHER STRIPS

85B4750—Rubber with cloth insertion. For windows and doors. Wt., 50 ft., 3 to 1 1/2 lbs. Per ft., 3 to 1 1/2 lbs.

Width	Per 50 ft. Roll	Per 25 ft. Roll
3/8 in.	\$0.60	30c
1/2 in.	.70	35c
5/8 in.	.86	48c
1 in.	1.20	60c

RUBBER INSERTION STORM THRESHOLDS

85B4760—Made of hard wood with a center piece of sheet rubber. Keeps out rain, snow, cold and dust. Can be sawed to desired length. Usual retail value. Length, 36 in. Wt., 1 1/2 lbs. Price, each, .64c.

CUSHION FELT WEATHER STRIP

85B4754—Stitched wool felt. Wt., 50 ft., 10 to 14 oz.

Width	Per 25 ft. Roll	Per 50 ft. Roll
1/2 in.	26c	\$0.50
5/8 in.	45c	.90
3/4 in.	52c	1.00

METALLIC WEATHER STRIPS

85B4758—Made of gray rubber with cloth insertion and creased zinc back. Rolls of 100 linear feet. Wt., 4 to 4 1/2 lbs. We do not cut rolls. Width, 1/2 in. Price, per box, .14c. Width, 3/4 in. Price, per box, .14c.

Size, In.	Thickness of Door, In.	Per Pair, Lbs.	Per Pair, Lbs.
3	1/8 to 1	3c	\$0.78
3	1/4 to 1	5c	1.00
3	1/2 to 1	7c	1.22
3	1/2 to 2 1/4	12	2.95

CAST IRON STORM THRESHOLDS

85B4762—Preserve a close fit with the door. Grooves carry off water. Painted black. (Give size.) Length, 30 in., Shipping weight, 9 lbs. Each, 45c. 32 in., 9 1/2 lbs. Each, 50c. 34 in., 10 lbs. Each, 55c. 36 in., 10 1/2 lbs. Each, 57c.

Length	Shipping weight	Each
30 in.	9 lbs.	45c
32 in.	9 1/2 lbs.	50c
34 in.	10 lbs.	55c
36 in.	10 1/2 lbs.	57c

WARNER DOOR SPRINGS

85B3755—Made of coppered steel spring wire. Easy to apply, simple and efficient. Wt., 6 oz. Each, .5c.

Length	Shipping weight	Each
11 in.	10 1/2 lbs.	57c
12 in.	11 lbs.	60c
13 in.	11 1/2 lbs.	65c
14 in.	12 lbs.	70c

SCREEN DOOR SET

85B3745—Japanned Iron hold back hinge, with a covered spring. Size, 3x2 1/2 in. Without screws. Wt., 1 lb. Per pair, pairs, .60c.

Size, In.</th

INTERESTING VALUES IN BARN AND STABLE HARDWARE

ROLLER-BEARING BARN DOOR HANGERS



35c

Heavy wrought steel. Wheels are roller bearing, making the hanger anti-friction, on any length of track. (Without screws or bolts.)

85B3904 — Medium size, 1. Width, 5 in. Length, 10 1/4 in. Diameter of wheel, 4 in. Weight, pair, 5 1/2 lbs. Per pair 35c

85B3905 — Large, size 2. Width, 6 in.; length, 10 1/4 in. Diameter of wheel, 4 in. Weight, pair, 8 lbs. Per pair 43c

(For suitable track, see 185B3908.)

STEEL BARN DOOR HANGERS



45c

Wrought steel black japanned. Heavy and substantial. Wheels have steel axles and run in a slot the width of the hanger, which prevents wear and makes them easy running. Covered top to protect the wheels from snow, etc. Screws or bolts not included.

85B3906 — Size, 9 x 10 1/4 in. For doors having run of 6 ft. Weight, pair, 8 1/4 lbs. Per pair 45c

85B3907 — Size, 11 1/2 x 11 1/2 in. For doors having run of 10 ft. Weight, pair, 10 1/2 lbs. Per pair 60c

(For suitable track, see 185B3908.)

HINGE JOINT BARN DOOR HANGERS

ROLLER BEARINGS



52c

85B3900 — Heavy wrought steel. Very strong. One of our most popular barn door hangers. Many thousands in use and giving excellent satisfaction. With hinged joint and roller bearing wheels. Suitable for any size door or any length of run. The hinge joint prevents the door from binding when it is swung in or out. It cannot be thrown off the track as it has a guard that runs under the track. Will not run on ordinary track. For suitable track, see No. 185B3901. Complete with bolts. Diameter of wheel, 3 1/4 in. Exceptional value. Weight, pair, 6 1/2 lbs. Per pair 52c

85B3901 — For handling Vertical Sliding doors in hay lofts, etc. Highly thought of wherever used. Consists of a strong 5-in. iron drum, self locking at any point; three iron pulleys; one iron clamp, for fastening cable to door. Japanned. Shipping weight, per set, 28 lbs. Per set \$4.85

WIRE CABLE

185B3946 — Wire Cable for use with the above hoist. Strong, flexible and durable. Size, 5/16 in. Weight, for 100 ft., 12 1/2 lbs. Per foot 2 1/2c

85B3930 — Adjustable Hinge Joint Stay Roller. Will fit closely to the floor. Wrought steel, iron wheel. (Without screws.) Weight, each, 12 oz. Each 50c

Per dozen 1.00

IMPROVED TROLLEY BARN DOOR HANGER

\$1.25 PAIR



85B3919

The latest

and best

hanger.

Heavy

wrought

steel. Built for

hard usage on

the heaviest

doors. Has a

hinged joint

and will not

bind when swung out. A detachable door strap makes it easy to hang the door. Lateral adjustment to fit doors 1 1/2 to 2 1/2 in. thick. Easy running Roller Bearing Wheels. Heavy steel track and brackets. A pair consists of two hangers, two end brackets and one center bracket with bolts and screws. Weight, pair, 9 1/2 lbs. Per pair \$1.25

STEEL TROLLEY TRACK

185B3920 — Heavy wrought steel, without brackets. Give size,

Length, feet 4 6 8 10

Ship. wt. lbs. 5 6 8 8

Per length 18c 24c 30c

STEEL BARN DOOR RAIL



185B3908 — Wrought steel. Size, 1 in. by 3/16 in. With steel brackets. Black japanned. For use with Barn Door Hangers 85B3904 to 85B3907. Use 5/16 lag screws, or No. 12 wood screws. (Screws not included.) Length, ft. 6 8 10

Ship. wt. lbs. 5 6 8 8

Per length 18c 24c 30c

STEEL BARN DOOR RAIL

For Hinge Door Hangers

18. B3901 — Made of round edge steel. Size, 1 1/4 in. by 3/16 in. Steel brackets, countersunk for 5/16 in. screws. (Screws not included.) Length, ft. 4 6 8 10

Ship. wt. lbs. 4 6 8 10

Per length 17c 22c 34c 42c

STEEL DRIVE GATE HANGERS



85B3842 — Steel Sliding and Swinging Gate Hanger. The weight of the gate hangs in the center on its strongest point. Gate may easily be raised to clear deep snow or other obstruction. Made of steel and will not break. (Bolts not included.) Diameter of wheel, 3 1/4 in. Weight, 5 lbs. Each 38c

WROUGHT STRAP HINGES



Wrought steel strap hinges. Sizes given are one-half the total length of hinge when open. Without screws. (Give size.)

85B3820 — Light Pattern.

Size, in.	Width	Joint	Wt.	Pair	Size	Screw	Per	pair	Doz.	pair
3 1/4	1 1/2	3 oz.	No. 6	3c	26c					
5	1 1/2	5 oz.	No. 6	3c	32c					
5	1 1/2	8 oz.	No. 8	4c	40c					

85B3821 — Heavy Pattern.

Size, in.	Width	Joint	Wt.	Pair	Size	Screw	Per	pair	Doz.	pair
4	1 1/2	8 oz.	4c	40c						
5	1 1/2	13 oz.	7c	.75						
6	2 1/2	15 oz.	10	7c						
8	2 1/2	24 oz.	12	10c						
10	3 1/2	34 oz.	12	10c						
			16c	1.40						

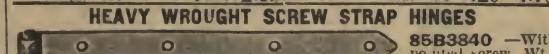
CORRUGATED STRAP HINGES



85B3824 — Wrought Steel Corrugated Strap Hinges. Strong and stiff. Sizes given are one-half the total length of hinge when open. Without screws. (Give size.)

Size, in.	Width	Joint	Wt.	Pair	Size	Screw	Per	pair	Doz.	pair
4	1 1/2	8 oz.	8	5c	\$0.48					
5	1 1/2	12 oz.	8	6c	.65					
6	2 1/2	12 oz.	10	8c	.85					
8	3	2 1/2 lb.	10	13c	.85					
10	3 1/2	4 lb.	14	19c	2.05					

HEAVY WROUGHT SCREW STRAP HINGES



85B3840 — With pointed screw. Wt. pair, 4, 4 1/2, 6 lbs. (Give size.)

Length of strap 10 in.

Per pair \$0.17

Per dozen pairs 1.35

Per dozen pairs 2.10

Per dozen pairs 2.85

WROUGHT T-HINGES



Wrought Steel T-Hinges. Sizes below indicate length of the strap. Without screws.

85B3828 — Light pattern.

Size, in.	Width	Joint	Wt.	Pair	Size	Screw	Per	pair	Doz.	pair
3	2 1/2	4 oz.	7	3c	27c					
4	2 1/2	5 oz.	7	3c	35c					
8	7 1/2	12 oz.	14	4c	4.75					

85B3830 — Extra heavy pattern.

Size, in.	Width	Joint	Wt.	Pair	Size	Screw	Per	pair	Doz.	pair
4	3 1/2	1 1/2 oz.	10	8c	\$0.58					
5	3 1/2	1 1/2 oz.	10	8c	.80					
8	7 1/2	1 1/2 oz.	14	15c	.98					
10	7 1/2	3 1/2 oz.	14	20c	1.60					
			12	29c	2.40					

85B3832 — Wrought Steel Corrugated T-Hinges. The corrugations about the joints greatly increase the strength and prevent binding on the pin. Sizes indicate length of the strap. Without screws. (Give size.)

Size, in.	Width	Joint	Wt.	Pair	Size	Screw	Per	pair	Doz.	pair
4	3 1/2	1 1/2 oz.	10	8c	\$0.58					
5	3 1/2	1 1/2 oz.	10	8c	.80					
8	7 1/2	1 1/2 oz.	14	15c	.98					
10	7 1/2	3 1/2 oz.	14	20c	1.60					
			12	29c	2.40					

CORRUGATED T-HINGES



85B3832

— Wrought Steel Corrugated T-Hinges. The corrugations about the joints greatly increase the strength and prevent binding on the pin. Sizes indicate length of the strap. Without screws. (Give size.)

Length of strap 10 in.

Per pair 1.35

Per dozen pairs 2.10

Per dozen pairs 2.85

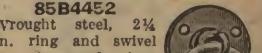
PATENT HEAVY T-HINGES



85B3834 — Made with two thicknesses of steel surrounding the pin its entire length and extending back upon the strap and tee, thus, giving double the strength of any ordinary hinge. Inside leaves are galvanized. Sizes indicate length of the strap. Weight, per pair, 1 1/4 lbs. Without screws. (Give size.)

Size, in.	Width	Joint	Wt.	Pair	Size	Screw	Per	pair	Doz.	pair
6	4 1/2	1 1/2 oz.	10	8c	\$1.60					
8	7	1 1/2 oz.	12	15c	2.60					
10	7	1 1/2 oz.	12	15c	3.80					
			12	48c	5.60					

HITCHING RINGS



85B4452

CHEST, DRAWER AND CUPBOARD LOCKS

CHEST LOCKS



Wts. 1 to 4 oz. 1 key.
85B4012—Brass, 1½ in. To key pin, ½ in.
Each 14c
85B4013—Iron, 2 in. To key pin, 1 in.
Each 90c
85B4014—Iron, 2 ½ in. To key pin, ¾ in.
Each 12c
85B4015—Brass, 2 ½ in. To key pin, ¾ in.
Each 15c
85B4016—Iron, 3 in. To key pin, 1 in.
Each 18c
85B4017—Size, 2 in. For ¾ in. wood.
Each 43c
85B4018—Size, 2 in. For ¾ in. wood.
Each 58c
CHEST LOCKS



To center of brass cylinder. ¾ in. Two keys.
Wt. 3 oz.
85B4019—Size, 2 ½ in. For ¾ in. wood.
Each 58c
CHEST LOCKS



Size, 3 in. To key pin, 1 in. One key. Wt. 4 oz.
85B4022—Iron. Each 28c
85B4023—Brass. Each 30c



Iron. Self-locking. One key. Brass escutcheon.
85B4026—Size, 2 ½ in.
in. Wt. 8 oz. Each 40c
85B4027—Size, 2 ½ in.
in. Wt. 3 oz. Each 32c

CHEST LOCKS



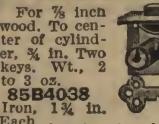
Brass. Two keys.
85B4030—Size, 2 ½ in.
in. To center of cylinder.
1 ¼ in. For wood 1 ½ in.
Each 14c
85B4031—Size, 1 ¼ in.
in. To center of cylinder.
¾ in. For ¾ in. wood.
Wt. 2 oz. Each 25c

DRAWER LOCKS



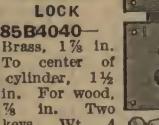
Wt. 1 to 2 oz. 1 key.
85B4034—Iron, 1 ½ in. To key pin, ½ in.
Each 22c
85B4035—Iron, 2 in. To key pin, ¾ in.
Each 23c
85B4036—Iron, 2 ½ in. To key pin, ¾ in.
Each 32c

DRAWER LOCKS



For ¾ in. wood. To center of cylinder. ¾ in. Two keys. Wt. 2 oz.
85B4038—Iron, 1 ¼ in. Each 17c
85B4039—Brass, 2 in. Each 25c

DRAWER LOCK



Brass, 1 ½ in. To center of cylinder. 1 ½ in. For wood, ¾ in. Two keys. Wt. 4 oz. Each 22c

WARDROBE LOCKS



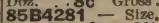
Size, 2 ½ in. Two keys. For wood, ¾ in. or 1 ¼ in. (Give size.) Wt. 3 oz.

BOX LOCK



Brass, 1 ¼ in. To key pin, ¾ in. Wt. 1 oz.

IRON



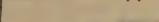
Each 40c
85B4060—Iron, Each 40c
85B4061—Brass, Each 43c

CHEST LOCKS



Size, 2 ½ in. Two keys. For wood, ¾ in. or 1 ¼ in. (Give size.) Wt. 3 oz.

IRON



Doz. 90c Gross 98c

IRON



Doz. 90c Gross 98c

IRON



Doz. 90c Gross 98c

IRON



Doz. 90c Gross 98c

IRON



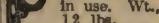
Doz. 90c Gross 98c

IRON



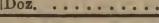
Doz. 90c Gross 98c

IRON



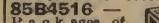
Doz. 90c Gross 98c

IRON



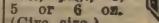
Doz. 90c Gross 98c

IRON



Doz. 90c Gross 98c

IRON



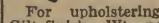
Doz. 90c Gross 98c

IRON



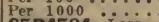
Doz. 90c Gross 98c

IRON



Doz. 90c Gross 98c

IRON



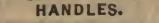
Doz. 90c Gross 98c

IRON



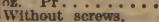
Doz. 90c Gross 98c

IRON



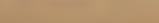
Doz. 90c Gross 98c

IRON



Doz. 90c Gross 98c

IRON



Doz. 90c Gross 98c

CUPBOARD LOCKS

1 key.
85B4045—Iron, 2 ½ in.
2 ½ in. Wt. 1 oz.
Each 50c

MORTISE LOCK

Brass, 2 ½ in.
1 ¼ in. To center of cylinder.
1 ¼ in. For wood 1 ½ in.
Each 90c

SEWING MACHINE LOCK

Brass, 2 ½ in.
1 ¼ in. To center of cylinder.
1 ¼ in. For wood 1 ½ in.
Each 12c

TRUNK LOCK

Brass, 2 ½ in.
1 ¼ in. To center of cylinder.
1 ¼ in. For wood 1 ½ in.
Each 12c

WARDROBE LOCKS

For right or left hand.
Wt. 2 oz.
85B4054—Size, 2 ½ in.
2 ½ in. Doz. 25c

TRUNK LOCK

Cast brass.
Very popular.
Size, 6 ¼ in.
2 ½ in. Doz. 25c

WARDROBE LOCKS

Size, 2 ½ in.
2 ½ in. Doz. 25c

ROLL TOP DESK LOCK

Iron, 2 ½ in.
1 ¼ in. 1 key.
Wt. 3 oz.
Each 35c

SEWING MACHINE LOCK

Brass, 2 ½ in.
1 ¼ in. Brass face and strike.
To key hole, ¾ in. Wt.
2 oz. Each 50c

TRUNK LOCK

Brass, 2 ½ in.
1 ¼ in. Brass face and strike.
To key hole, ¾ in. Wt.
2 oz. Each 50c

WARDROBE LOCKS

For right or left hand.
Wt. 2 oz.
85B4054—Size, 2 ½ in.
2 ½ in. Doz. 25c

TRUNK LOCK

Cast brass.
Very popular.
Size, 6 ¼ in.
2 ½ in. Doz. 25c

WARDROBE LOCKS

Size, 2 ½ in.
2 ½ in. Doz. 25c

FINE DRAWER PULLS

85B4100—Polished Cast Brass, 5 ½ in. 1 ½ in.
Each \$0.19
Doz. 2.15

85B4102—Antique copper finish, on cast brass.
Size, 1 ¼ in. 1 ¼ in.
Each \$0.33
Per dozen 3.75

85B4104—Polished Cast Brass, 4 ½ in. 1 ¼ in.
Each \$0.14
Per dozen 1.50

85B4105—Polished Heavy Cast Brass, 4 ½ in.
Each \$0.22
Per dozen 2.48

85B4106—Polished cast brass, 4 ½ in. 2 ½ in.
Each \$0.12
Per dozen 1.25

CAST DRAWER PULLS

Bolts with nuts project from the back 3 in. apart.
Average wt., doz. 3 lbs.

85B4114—Polished cast brass, 4 ½ in. 1 ¼ in.
Each \$0.40
Per dozen 4.80

85B4116—Polished cast brass, 4 ½ in. 2 ½ in.
Each \$1.25
Per dozen 15.00

85B4117—Polished cast brass, 4 ½ in. 2 ½ in.
Each \$0.12
Per dozen 1.25

DOOR HANDLE

85B4160—Polished cast brass, 4 ½ in.
Without screws. Wt., each 12 oz.
Each \$0.80
Per dozen 8.00

DOOR HANDLE

85B4162—Polished cast brass, 3 ½ in.
Without screws. Wt., each 12 oz.
Each \$0.70
Per dozen 7.00

COMBINATION HANDLE

85B4164—Handle and Escutcheon, 4 ½ in.
Polished cast brass. Without screws. Wt., 12 oz.
Each \$0.35
Per dozen 3.50

CAST BRASS PULL

85B4158—Length, 3 ½ in. Wt., 12 oz.
Each \$1.35
Per dozen 13.50

STAMPED PULLS

Bolts with nuts project from the back, 3 in. apart.
Average wt., doz. 1 ½ lbs.

85B4122—Stamped brass, Gilt finish, Size, 4 ½ in. Doz. 35c

85B4130—Stamped brass, Gilt finish, Size, 4 ½ in. Doz. 28c

85B4132—Stamped brass, Gilt finish, Size, 4 ½ in. Doz. 30c

85B4134—Stamped brass, Gilt finish, Size, 4 ½ in. Doz. 35c

85B4138—Stamped brass, Gilt finish, Size, 4 ½ in. Doz. 25c

85B4140—Stamped brass, Gilt finish, Size, 4 ½ in. Doz. 30c

85B4142—Ebony wood, drop handle, with brass trimmings. Doz. \$0.10
Each 1.05

BRASS ESCUTCHEONS

85B4180—Polished cast brass, 2 ½ in. 1 ½ in. Wt., 1 oz. Each 30c

85B4182—Stamped brass, Gilt finish, 1 ¼ in. 1 ¼ in. Wt., 2 oz. Each 30c

85B4184—Stamped brass, Gilt finish, 2 ½ in. 1 ¼ in. Wt., 1 oz. Each 9c

85B4186—Smooth wrought steel. Neater and stronger than cast iron.
Length handle, 3 ½ in. Size plate, 2 ½ in. Wt., pair. 8 oz.

85B4246—Japanned. (Without screws.) Pair 1.10
85B4248—Polished Antique Copper Finish. (With screws.) Pair 1.10
Length handle, 4 in. Size plate, 2 ½ in. Wt., pair. 8 oz.

85B4249—Polished Antique Copper Finish. (With screws.) Pair 1.10
Length handle, 4 in. Size plate, 2 ½ in. Wt., pair. 8 oz.

85B4250—Bronzed. With screws. Wt., pair. 9 oz. Each 14c
Size, in. 3 ½ in. 2 ½ in. 4 ½ in. 15 oz. Each 16c

85B4252—Bronzed. With screws. Wt., pair. 9 oz. Each 14c
Size, in. 3 ½ in. 2 ½ in. 4 ½ in. 15 oz. Each 16c

85B4255—Wrought Steel. Very strong. Japanned finish. Size of plate, 3 ½ in. 3 ½ in. With screws. Used largely for lifting outside cellar doors or side walk trap doors. Wt., per doz. 6 ½ oz. Each 9c
Size, in. 3 ½ in. 2 ½ in. 4 ½ in. 15 oz. Each 16c

85B4256—Wrought Steel. Very strong. Japanned finish. Size of plate, 3 ½ in. 3 ½ in. With screws. Used largely for lifting outside cellar doors or side walk trap doors. Wt., per doz. 6 ½ oz. Each 9c
Size, in. 3 ½ in. 2 ½ in. 4 ½ in. 15 oz. Each 16c

85B4257—Wrought Steel. Very strong. Japanned finish. Size of plate, 3 ½ in. 3 ½ in. With screws. Used largely for lifting outside cellar doors or side walk trap doors. Wt., per doz. 6 ½ oz. Each 9c
Size, in. 3 ½ in. 2 ½ in. 4 ½ in. 15 oz. Each 16c

COAT AND HAT HOOKS

85B4280—Iron, japanned. Total length, 9 ¼ in. Projects, 4 ¼ in. Wt., doz. 5 ½ lbs. Each 6c
85B4281—Size, 3 ¼ in. Wt., doz. 1 ½ lbs. Each 6c

85B4284—Antique copper finish on steel. A very neat and popular style of coat hook. Length, 3 ½ in. With screws. Wt., doz. 2 lbs. Each 55c

85B4286—Polished Solid Bronze Coat Hook. Size, 3 ½ in. Wt., doz. 1 ½ lbs. Each 55c

85B4294—Brown enamel on iron. Length, 11 in. Can be swung against wall when not in use. Wt., doz. 1 ½ lbs. Each 9c
85B4295—Antique copper finish on iron. Height, 5 in. Has bolt with nut. Wt., ¼ lb. Each 10c

85B4296—Iron, brown enamel. Five, 8 ½ in. Swings against wall when not in use. Wt.,

HARDWARE NECESSITIES AT INTERESTING PRICES

STEEL SHELF BRACKETS

Wrought Steel Shelf Brackets. Will not break. We have two finishes. Black japanned, and brass plated. Wt., pair, $\frac{1}{4}$ to $\frac{1}{2}$ lbs.			
85B4350 Jap.		85B4351 Brass Plated	
Size, In.	Pair	Doz.	Pairs
4x5	4c	\$0.36	\$0.09
5x7	5c	.55	.13
6x8	7c	.68	.16
7x9	8c	.80	.18
8x10	9c	.95	.19
10x12	12c	1.35	.24
		2.70	

Screws included only with 85B4351 brass plated.

FOLDING STEEL BRACKETS



85B4354 — Wrought steel japanned. Locks automatically when lifted up and folds down against the wall when not in use. Fine for the kitchen, pantry or store room. (Screws not included.) (Give size.)

Size, In.	Wt., Pair	Per Doz.	Pairs	Pair
8x8	1 1/2 lbs.	\$2.50	23c	
12x12	2 1/2 lbs.	3.75	33c	
16x16	4 lbs.	6.30	55c	

IRON FLOWER POT BRACKETS



Dark Bronze Lacquered Finish

85B4358 — Length of arm, 5 in.; diameter of dish, 4 in. Wt., 8 oz.

Each 8c
Per dozen 85c
Each 25c

85B4360 — Length of arm, 5 1/2 in.; diameter of dish, 4 1/2 in. Wt., 1 lb. Each 15c

85B4361 — Length of arm, 8 in.; diameter of dish, 5 1/2 in. Wt., 1 1/2 lbs. Each 20c

ROLLER BEARING CASTERS



85B4380 — Made of iron. Copper plated. Revolve upon steel rollers or disks. With 1 1/4 in. iron wheel; 1 1/4 in. plate. Long stem. Wt., set of four 14c

85B4384 — With 1 1/4 in. iron wheel. Oblong plate. 1 1/4 in. Wt., set, 1 1/2 lbs. Per set of four 18c

85B4390 — Small ball bearing caster. For shirt, waist boxes, etc. Hardwood wheels. Set of four 15c

85B4385 — With 1 1/4 in. iron wheel. Oblong plate, 1 1/4 in. Wt., set, 8 oz. Set of four 22c

Convenient and Useful Casters For Many Purposes

BALL BEARING CASTERS



85B4370 — Brass plated. Diameter of ball, 1/4 in. Wt., set, 4 oz. Set of four 56c

85B4371 — Diameter of ball, 1 1/4 in. Wt., 1 1/4 oz. Set of 4. 64c

85B4372 — Brass plated. Diameter of ball, 1/4 in. Wt., set, 5 oz. Set of four 52c

85B4374 — Diameter of ball, 1 1/4 in. Wt., 12 oz. Set of four 60c

BALL BEARING FELT WHEEL CASTERS
For Good Furniture.
85B4373 — A high grade caster for good furniture. Wheels are compressed pure wool felt, will not scratch the floor. Run easily and quietly. Size of sockets, 1/2 x 1 in. Wt., set about 1 lb. Diameter, wheel, 1 1/4 in. Set of four 45c
Diameter, wheel, 1 1/4 in. Set of four 60c
Diameter, wheel 1 1/2 in. Set of four 75c

COMMON CASTERS

GRIP NECK 6c to 9c A SET

Maple wheels. With sockets, 1/2 x 1 in. Wt., set, 6 to 12 oz.

85B4392 — Maple wheel, 1 1/4 in. Per set 6c

85B4393 — Maple wheel, 1 1/4 in. Per set 8c

85B4394 — Lignum vitae wheel, 1 1/4 in. Wt., set, 7c

85B4395 — Lignum vitae wheel, 1 1/4 in. Per set 9c

BED CASTERS
ALL IRON, COPPER BRONZED

85B4396 — Iron wheel, 1 1/4 in. Wt., set, 1 1/4 lbs. Per set 8c

85B4397 — Iron wheel, 1 1/4 in. Wt., set, 1 1/2 lbs. Per set 9c

85B4398 — Iron wheel, 2 in. Wt., set, 1 1/4 lbs. Per set 10c

85B4399 — Maple wheel, 1 1/4 in. Wt., set, 1 lb. Per set 9c

85B4400 — Maple wheel, 1 1/4 in. Wt., set, 1 lb. Per set 9c

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Per dozen sets \$1.00

Quick Index to

Goods for the Farm

Pages 919 to 967

Rope and Twine	919
Implement Repair Parts	919
Tillage Machinery	920-924
Planting Tools	926-927
Seed Graders and Farming Mills	925
Land Rollers and Scrapers	928
Potato Machinery	929
Cultivating Machinery	930-931
Sprayers	932-933
Harvesting Machinery	934-935
Feed Cutters	936
Corn Shellers	937
Grain Mills	938-939
Saw Frames	940
Evaporators	940
Cement Machinery	941
Wind Mills	942
Gas Engines and Supplies	942-948
Dairy Supplies	949-955
Bee Supplies	955
Cow Barn Supplies	956-957
Poultry Supplies	958-961
Silo Parts	961
Hog Supplies	962
Feed Cookers	963
Stock Tanks	964-965
Scales	966-967
Stump Pullers	967

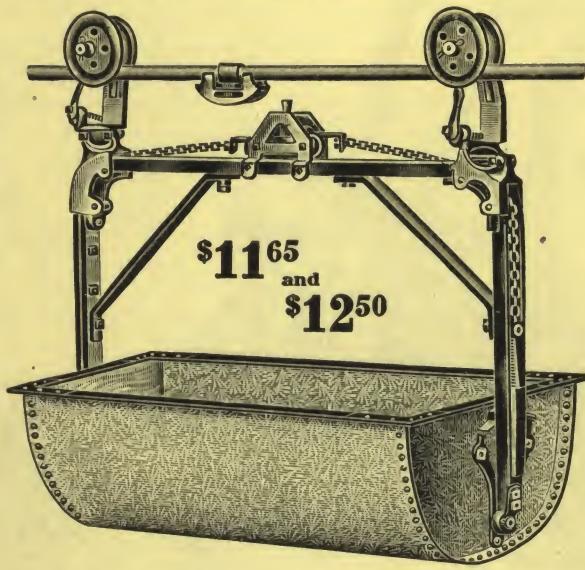
IT'S all in the knowing. When business was new and methods were crude, most things went by guess-work. But today we leave nothing to chance. WE KNOW WHAT WE BUY. We have our own chemists and testers—who see that our rigid specifications to manufacturers are absolutely complied with at all times. WE KNOW WHAT WE SELL. And that's the reason we stand squarely back of our merchandise—with an insistent guarantee and a responsible reputation.

Climax Litter Carriers

DRUDGERY and hard work in your barn cut in two. See Farm Implement pages following for complete line of Automatic Raise and Lower and Adjustable Feed and Litter Carriers at surprisingly low prices.

Don't fail to look over our barn equipment. Your barn fitted with our steel Stalls, steel Stanchions, and our Climax Litter Carrier outfit insures cleanliness with the least labor.

CLIMAX is a brand of quality in our line of Farm Machinery. When you buy a Climax you are not paying excessive prices for a high sounding trade mark, but you are getting the benefit of careful and expert discrimination. The name Climax is used only on such tools and machines as have been thoroughly tried and tested in comparison with the best of their kind.



\$11⁶⁵
and
\$12⁵⁰

IF YOU are a Hog Raiser, Dairyman, or Poultryman, it is GOOD business to look over our excellent lines of food preparing, watering, and other devices. The improved health and thrift of your stock and poultry will pay a big return on your investment. No fads or experiments; practical time and feed saving devices—every one of them.

Our Climax Adjustable, Climax Raise and Lower, and Climax Feed Carrier Outfits and Parts are offered to you in the belief that there are no other litter or feed carriers, that can be purchased at our prices, equal to them. Our familiarity with many well known makes of carriers on the market has proven to our satisfaction that no matter what prices you pay, there is none, to our knowledge, that has more good features for the easy and convenient handling of feed, litter, silage and other materials.

Either style Climax will operate on all rod track, all steel rail track, or combination rod and steel rail track. We especially recommend steel rail track for general use in barns. It gives a solid, level bearing for carrier, eliminating sagging and allowing the car to stand at any desired point, without applying brake. Outside the barn, rod track may be used with either right or left hand splice connections to switch from the steel rail to the rod track.

THE stage-coach had to give way to the express train—BECAUSE IT WAS TOO SLOW. The old method of distributing merchandise had to give way to the new—because its slow processes failed to quickly get new ideas and creations from the places where they originate, to the places where they are needed. This catalogue gets the latest of the best styles to you—while they are still styles. IT IS THE MODERN WAY.

The Old Freight Argument

It's an old story, this freight argument. It's a bugaboo argument. When you are told that you don't save much in the long run by buying here, because you pay the freight, just keep in mind that you've got to do that when you buy anywhere, even if you live across the street from the store you buy from.

The difference is this: When you buy from us you know exactly what the freight amounts to, because you pay the bill yourself.

Buying any other way, you don't know what the freight is, to be sure, but you pay for it just the same—often you pay a profit on that, too.

A Good Top Buggy is a Handy Farm Need

We've been working hard on two or three special new designs that ought to be favorites—they're really utility models, with the price way down—around \$50.00 for a standard buggy.

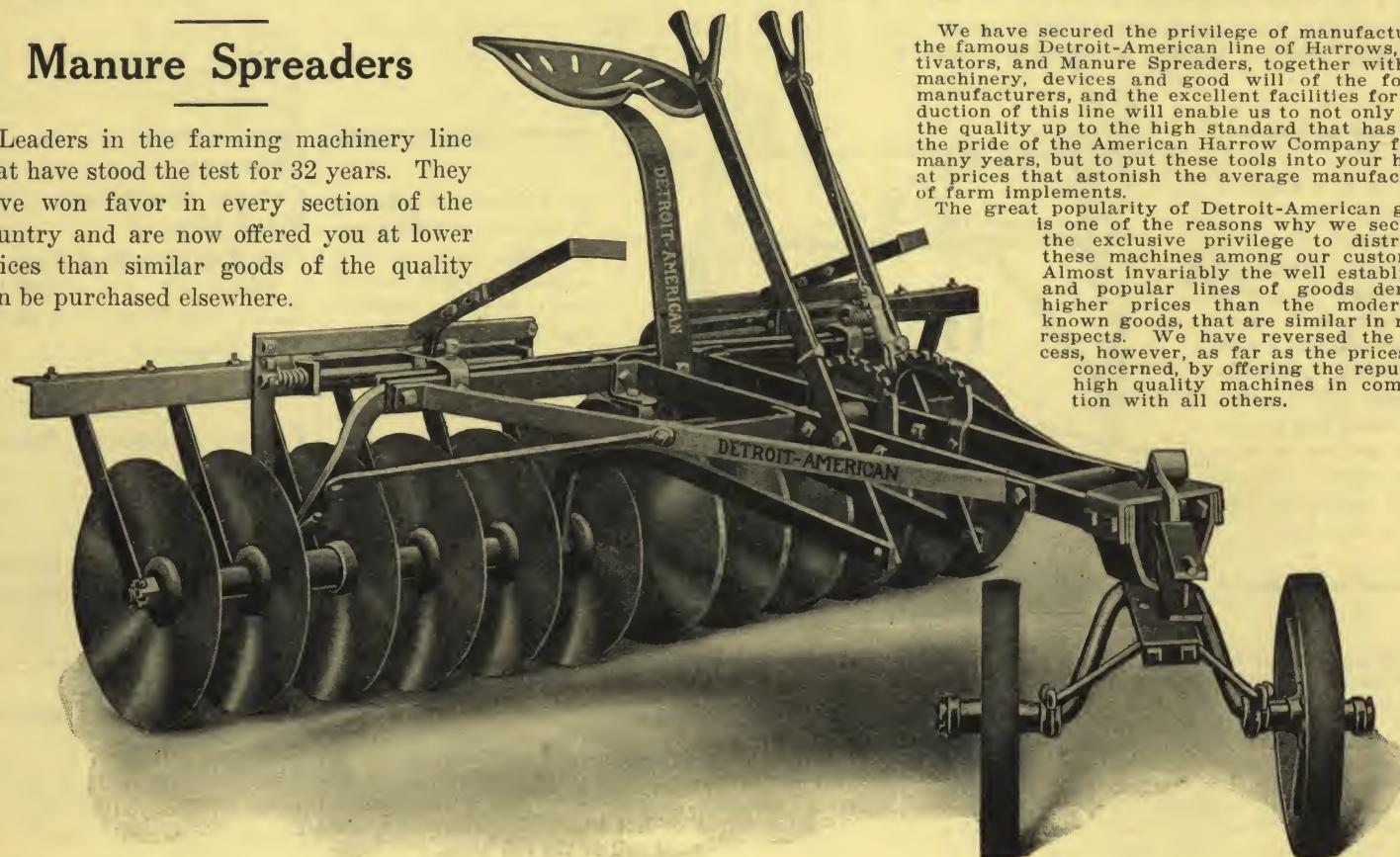
EVERYONE has something to sell. If it's not merchandise, it is service, or produce, or resources. WE ARE ALL SELLERS. And if we are good sellers we know that we must sell HONEST VALUE and FULL MEASURE—or we will not sell again in the same place. We do these things as a matter of self-interest. It is just common business sense—the application of the law of the survival of the fittest. YOU CAN'T BUILD UP A TRADE BY MISREPRESENTING THE THINGS YOU HAVE FOR SALE. NEITHER CAN WE.

Detroit-American

Disc Harrows—Pivot Axle and Spring Tooth Cultivators

Manure Spreaders

Leaders in the farming machinery line that have stood the test for 32 years. They have won favor in every section of the country and are now offered you at lower prices than similar goods of the quality can be purchased elsewhere.



\$17.95 for 4-foot cut, 8-disc harrow, complete with tongueless truck, up to \$29.00 for the 8-foot cut, 16-disc harrow with truck. Compare these prices with any make of disc harrows in your home market, or any place where disc harrows are sold, and you will find they can't be beat.

We are just as anxious that you make comparison of the quality, including steel construction, the comparatively light draft, satisfactory operation with any other makes, and we feel just as convinced that the quality as well as the price will also surprise you.

Detroit-American Cultivators

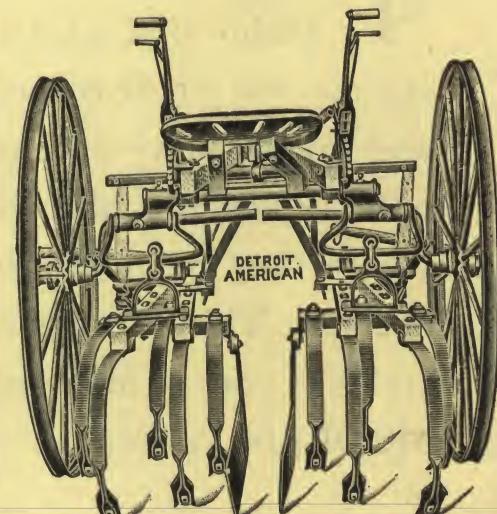
Detroit-American Cultivators include a range of styles and kinds suitable for practical corn cultivation, and adaptable for cultivation of all vegetables that are planted in rows.

Pivot axle shovel gang cultivators with approved spring trip. Especially desirable for hilly or uneven land. Combination spring tooth cultivators and harrows; bean Harvester attachment to cultivators; combination spring tooth cultivator, harrow and seeder, and a large assortment of shovel gangs for every requirement of the soil you work or the crops you cultivate.

To improve our lines is one of the things we are constantly striving for. In saying this, we do not want to imply that our former line of farm implements was not good, or that it was not an exceptional value for the price we asked. By taking over this new line we have standardized our Harrows, Cultivators and Spreaders and secured a uniformly higher standard of efficiency throughout. Just as, during the last two years, we have spent a great deal of time and effort and a great amount of money to make our service more satisfactory and enable us to put your orders on a time-table schedule—just so we have built up this farm implement line to a point where we feel sure that you will be pleased, not only with the goods received, but also with our service and our entire method of dealing.

We could not expect your continued patronage if we were not in position to give you as near or nearer one hundred cents in value for every dollar of price obtainable. We confidently believe that you will become a permanent customer if you buy the implements you need from our line of farming machinery. We invite side by side test and trials with other similar tools regardless of price.

The following pages of farming machinery include the Detroit-American lines; the new Climax line of Potato Machinery, second to none; a full line of seeding machinery; sprayers; haying tools; and other farming implements. It is worth your while to study these prices very carefully.



Parcel Post Wrapping Twine

Made of Hemp. Very strong. For wrapping purposes. Especially desirable for Parcel Post packages. Averages about 450 ft. per lb. Cream color.

88B10—Price, per 1/2 lb. ball	10c
88B12—Price, per 10 lbs. (20 balls)	\$1.80
88B14—Price, for bale, 150 lbs. (300 balls)	\$25.50

Jute Wrapping Twine

Three-ply, Unplied Jute Wrapping Twine. Strong and pliable. The best quality. Especially suitable for market gardeners, for tying up vegetable bunches, and wrapping. 700 to 800 ft. per lb. Put up in balls of $\frac{1}{2}$ pound each.

88B18—Price, per lb. (2 balls)	17c
88B20—Price, per lb. in bales of 150 lbs. (300 balls)	16c

Wool Twine

Finished and Unfinished Three-ply, for tying wool bales, tobacco, grape vines, etc. Put up in balls averaging 1 pound of about 235 feet.

88B24—Unfinished. Per ball	10c
88B26—Finished. Per ball	11c

Mower and Reaper Sections

Oil tempered, steel machine sections, standard in quality and size. Put up in boxes of ten sections with 20 rivets. We do not break boxes. With your order send a pencil sketch showing exact size of sections, also position of the rivet holes. Give name of machine and size of section.

SMOOTH, FOR MOWERS

Buckeye, 3x3 $\frac{1}{4}$ in.; Buckeye, H. P. or L. P., 3x3 $\frac{1}{4}$ in.; Champion, 3x3 $\frac{1}{4}$, 3x3 $\frac{1}{4}$, 3x3 $\frac{1}{4}$; 3x3 $\frac{1}{4}$, 2 in.; Deering, 3x3 $\frac{1}{4}$ and 3x3 $\frac{1}{4}$; Emerson, 3x3 $\frac{1}{4}$ in.; Johnson, 3x3 $\frac{1}{4}$ in.; King of the Meadow, 3x3 $\frac{1}{4}$ in.; McCormick, 3x3 $\frac{1}{4}$ in.; Milwaukee, 3x3 $\frac{1}{4}$ in.; Osborne, H. P. or L. P., 3x3 $\frac{1}{4}$ in.; Plano, 3x3 $\frac{1}{4}$ in.; Wood, 3x3 $\frac{1}{4}$ in.:

SERRATED FOR REAPERS

Champion, 3x2 $\frac{1}{4}$ in.; Deering, 3x2 $\frac{1}{4}$ in.; McCormick, 3x2 $\frac{1}{4}$ in.; Milwaukee, 3x2 $\frac{1}{4}$ in.; Osborne, 3x2 $\frac{1}{4}$ in.; Plano, 3x2 $\frac{1}{4}$ in.; Wood, 3x2 $\frac{1}{4}$ in. and 3x2 $\frac{1}{4}$ in.

88B82—Smooth, box of 10 with rivets	30c
88B84—Serrated, box of 10 with rivets	32c

MOWER AND REAPER KNIVES

Tempered Steel, Ground Knives, complete with head. Can be furnished to fit any of the well known makes. Odd knives can be shipped direct from factory, purchaser paying charges. Be sure to give name of the machine and number and letter on the old knife head. If you cannot give number, send sketch of the old head; also give size of the sections.

188B80—Smooth, 4 $\frac{1}{2}$ -ft. knife, 18 sections. Shipping wt. 10 lbs.	\$1.70
188B82—Smooth, 5-ft. knife, 20 sections. Shipping wt. 11 lbs.	\$1.90
188B84—Smooth, 6-ft. knife, 24 sections. Shipping wt. 13 $\frac{1}{2}$ lbs.	\$2.20

MALLEABLE KNIFE GUARDS

Complete with guard plates. We carry a large stock to fit the well known machines. Odd guards can be shipped direct from factory, customer paying parcel post charge. Give name of machine and number, and letter on the old guard, otherwise we can't fill order promptly. Weight, 1 lb.

88B178—Price, with plate	18c
------------------------------------	-----

GUARD PLATES

Made of high quality steel. Put up in boxes of ten plates, with 20 rivets. Give name of machine, number and letter on guards and send a paper pattern with size of plate showing the position of rivet hole. We do not break boxes. Weight, per box, 14 oz.

88B183—Price, box of ten	26c
------------------------------------	-----

KNIFE HEADS

For the well known makes of Mower or Reaper. Either malleable or steel head. Give name of the machine, number and letter on the head, and if no number, a carefully penciled drawing with all description possible. Average weight, 1 $\frac{1}{2}$ lbs.

88B188—Malleable head	19c
88B190—Steel head, to fit Deering's Mower	35c

SECTION RIVETS

No. 6 or 3/16 inch Section Steel Rivets in one-pound boxes. Can furnish in $\frac{1}{2}$ or $\frac{3}{4}$ -inch length with bung head or with countersunk head. State length and style head wanted. Put up in one-pound boxes. We do not mix packages or sell less than a box.

88B195—Per box, countersunk	6c
88B197—Per box, bung head	7c

GUARD PLATE RIVETS

No. 6 Steel Rivets for guard plates, 3/16 in. length, 1 $\frac{1}{2}$ in., with countersunk heads in 1 lb. boxes.

88B202—Price, per box	8c
---------------------------------	----

Link Chain Steel Belting

For use on mowers, binders, corn shellers, feed cutters, etc. When ordering chain for repairs, be sure to give number of chain; also lay one link on paper and mark around outside and inside with pencil, showing size and shape of links.

Art. No.	Size No.	Shipping Weight, per ft.	Links per ft.	Working Strain	Price per ft.
88B207	25	4 oz.	13.3	75 lbs.	6c
88B209	32	5 oz.	10.4	150 lbs.	6c
88B211	33	5 oz.	8.6	225 lbs.	7c
88B213	34	6 oz.	8.6	225 lbs.	7c
88B215	35	7 oz.	7.4	250 lbs.	7c
88B217	42	9 oz.	8.8	300 lbs.	8c
88B219	45	9 oz.	7.4	350 lbs.	9c
88B221	55	12 oz.	7.4	450 lbs.	9c
88B223	62	16 oz.	7.3	650 lbs.	12c

Cultivator Sweeps

For Riding Cultivators. Adjustable Back to Fit Round Shanks from 1 in. to $\frac{1}{4}$ in.

Our Riding Cultivator Sweeps are made of an excellent quality of crucible steel with adjustable back to fit on round shank cultivator gangs any size from 1 to $1\frac{1}{2}$ in. They are made full sweep, correct shape, drawn and polished. Can be easily and rigidly attached to any round shank of any make of riding cultivator with 1 in. or $1\frac{1}{2}$ in. shanks. Can furnish sweeps with the one style back only for round shanks and 6, 8, 10 or 12 inch width.

188B225—Width, 6 in., full sweep. Shipping wt.	30c
188B227—Width, 8 in., full sweep. Shipping wt.	33c

188B239—Width, 10 in., full sweep. Shipping wt.	36c
188B241—Width, 12 in., full sweep. Shipping wt.	40c

GRAIN DRILL POINTS

Polished steel, will fit any drill. Not drilled. Shipping weight, 10 oz.

88B250—Plain. Each	9c
88B252—Reversible. Each	10c

Pure Manila Rope Long Graded Fibre

Strength tests have proven that there is no better Manila Rope than ours.

NO DOUBTFUL MIXTURES, NO SECOND GRADE STOCK, NO INFERIOR FIBRE. OUR MANILA ROPE is the best quality we can buy. All made of strictly Pure Manila Fibre, full size, flexible, long wearing.

We make special prices on cut lengths of 100, 200 and 300-ft. pieces. The saving effected by cutting in these sizes in large quantities at one time enables us to reduce the price over the odd lengths. For any other than the three sizes quoted, the price will be based on our quotations per foot, as each odd size has to be cut to order. We can furnish single lengths up to 1200 feet.

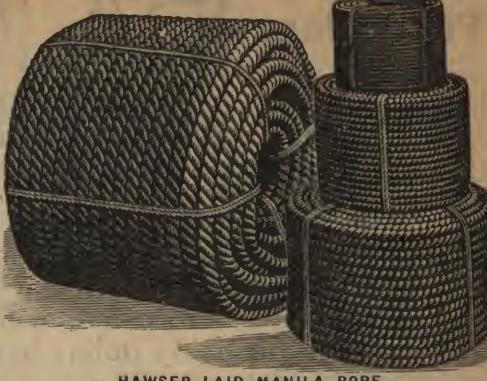
Manila Rope

Per ft.	100 ft.	200 ft.	300 ft.	Size, $\frac{1}{4}$ in.	3 Strand.	Weight, per 100 ft., 22c lbs.
188B30— $\frac{3}{4}$ c	\$0.35	\$0.65	\$0.95	Size, $\frac{1}{4}$ in.	3 Strand.	Weight, per 100 ft., 41c lbs.
188B32— $\frac{3}{4}$ c	.72	1.35	2.25	Size, $\frac{1}{4}$ in.	3 Strand.	Weight, per 100 ft., 5c lbs.
188B34—1 c	1.88	3.75	5.75	Size, $\frac{1}{4}$ in.	3 Strand.	Weight, per 100 ft., 7c lbs.
188B36—1 $\frac{1}{2}$ c	2.00	3.85	6.75	Size, $\frac{1}{4}$ in.	3 Strand.	Weight, per 100 ft., 13c lbs.
188B38—2 $\frac{1}{2}$ c	2.45	4.85	7.20	Size, $\frac{1}{4}$ in.	3 Strand.	Weight, per 100 ft., 17c lbs.
188B40—3 $\frac{1}{2}$ c	2.90	5.75	8.55	Size, $\frac{1}{4}$ in.	3 Strand.	Weight, per 100 ft., 22c lbs.
188B42—3 $\frac{1}{2}$ c	3.15	6.25	9.30	Size, $\frac{1}{4}$ in.	3 Strand.	Weight, per 100 ft., 26c lbs.
188B44—3 $\frac{1}{2}$ c	3.65	7.25	10.75	Size, $\frac{1}{4}$ in.	3 Strand.	Weight, per 100 ft., 27c lbs.
188B46—4 $\frac{1}{2}$ c	3.90	7.75	11.05	Size, $\frac{1}{4}$ in.	3 Strand.	Weight, per 100 ft., 33c lbs.
188B48—5 $\frac{1}{2}$ c	4.40	8.75	13.00	Size, $\frac{1}{4}$ in.	3 Strand.	Weight, per 100 ft., 36c lbs.
188B50—5 $\frac{1}{2}$ c				Size, $\frac{1}{4}$ in.	4 Strand.	Weight, per 100 ft., 42c lbs.
188B52—5 c				Size, $\frac{1}{4}$ in.	4 Strand.	Weight, per 100 ft., 42c lbs.
188B54—5 $\frac{1}{2}$ c				Size, $\frac{1}{4}$ in.	4 Strand.	Weight, per 100 ft., 42c lbs.
188B56—6 c				Size, $\frac{1}{4}$ in.	3 Strand.	Weight, per 100 ft., 42c lbs.

White Sisal Rope

Pure No. 1 quality. Clear white sisal, no mixtures. The best we can buy. Carried in stock in three sizes only and cut in any lengths desired.

Price per foot	Price per 100 feet	Diameter, $\frac{1}{4}$ in.	3 Strand.	Weight, per 100 ft., 21c lbs.
1/3c	30c	3/8 in.	3 Strand.	Weight, per 100 ft., 21c lbs.
3/5c	65c	5/16 in.	3 Strand.	Weight, per 100 ft., 21c lbs.
1c	95c	1/2 in.	3 Strand.	Weight, per 100 ft., 21c lbs.



HAWSER LAID MANILA ROPE

Pure Manila, laid fiber. Cut to any desired length. Used as well-drilling cable, etc. Prices on larger sizes quoted upon application.

188B64— $\frac{1}{4}$ in.	Hawser Laid, 9 Strand.	Price, per ft.	3c
188B66— $\frac{1}{4}$ in.	Hawser Laid, 9 Strand.	Price, per ft.	4c
188B68— $\frac{1}{4}$ in.	Hawser Laid, 9 Strand.	Price, per ft.	5c

MANILA LARIAT ROPE

Pure Manila. Cut to any desired length. Is hard laid, will not kink, and runs free.

188B70— $\frac{1}{4}$ in.	3 Strand.	Price, per ft.	1c</td
---------------------------	-----------	------------------------	--------

Field, Barn
Dairy
Orchard

FARM MACHINERY

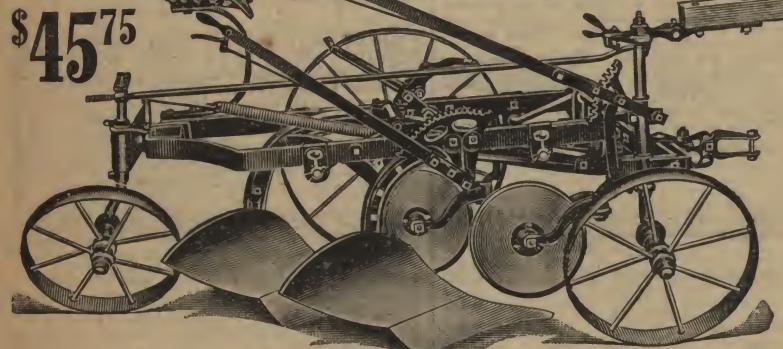
Under the Supervision of Practical, Experienced Men

Men who have devoted years of practice, study and effort to master every detail; gas engine and engineering experts capable of planning your power, pumping, lighting or irrigating plants; cream separator and dairy experts, with dairy experience from milking to butter making; field men who have spent many days behind the plow; shrewd, skilled, wide-awake buyers, constantly on the alert to give you a little more, a little better value for every dollar in price.

These men are ready and waiting to handle your orders; just as enthusiastic to answer your letters; just as willing to give you the benefit of their experience to help you decide what you need to till your land, to harvest your crops, to do your grinding, feed cutting, pumping, etc., as if your letter were accompanied by an order. We have the ability to do it, and the willingness to aid you in selecting the most suitable, economical and satisfactory implements for your requirements, and to give you prompt and efficient service.

Improved Climax Sulky and Gang Plows

With Tongue and
4-Horse Evener



FRAMES are made of heavy, strong steel bars so that the plow will always stay set up. No sagging or bending to cause the plow to run out of shape. The land wheel axle crosses under the frame with a box on either side of the frame and combines to support the axle and divide the strain. This feature keeps the land wheel in its proper running position and adds strength to the plow. The front furrow axle socket casting has slot holes to take up the slack after the plow has been used for some time, preventing it cutting too wide a furrow.

FOOT LIFT is the most effective and easiest ever devised. A slight push of the foot releases plow, pushes it into the ground and as it reaches its proper depth within 18 in. travel. The lift is directly in front of the driver, where weight can be instantly applied. As soon as the plow gets its depth, it is automatically locked and cannot lift until foot pressure is again applied.

IN STONY GROUND the plow can be left loose in the frame, to rise when it strikes stone or root. By a turn of the set screw the locking device can be thrown off its center and the plow will rise out of the ground, saving the point of share.

LEVELING LEVERS are within easy and convenient reach of the operator. The levers are to the right of the operator, allowing free clearing space at left side for mounting and getting off the plow. Perfect leveling is assured at all times.

WHEELS are set true, so that when at work there is no slipping or friction of any kind. The plow will follow the horses as true as a wagon. This is a very important feature, as in many other plows where the wheels are not running in direct line, it means adding another horse to your team. The line of draft in the Improved Climax Plow is so true that there is no need of setting one wheel barred against the other to line up the plow.

FRONT FURROW WHEEL has a latch, or hand lever, whereby the furrow wheel can be adjusted while the plow is working, without the necessity of loosening any bolts on the pole. This is an excellent feature, especially towards the close of the day, when a horse is tiring, and there is a tendency to crowd or lag. The wheel can be

instantly adjusted to overcome any side draft. This improvement, not found in all other plows, allows the operator to finish up piece of land better than most other riding plows.

THE REAR AXLE is set to positively take the friction from the landside of the plow bottom. The connecting rod is so arranged that when turning, the front furrow wheel and the rear furrow wheel work in harmony with each other, avoiding friction and giving the best results.

DUST-PROOF HUBS AND SAND BANDS on all wheels. A spring oil cup on each band enables the wheels to be properly oiled and will not let the dust in.

ROLLING COULTERS are fastened to the beams with corrugated washers and an eye-bolt through the beam. They are set at the best working point, but can readily be adjusted forward or backward, up or down.

PLOW BOTTOMS are extra well braced, and of the most approved shape.

MOULDBOARD AND SHARES are constructed from the highest grade of soft center steel, and shinned on the upper side, producing double-wearing qualities where the wear comes. The share and mouldboard are bound together by solid malleable frogs and heavy braces. Shares are reinforced at point by a heavy piece of steel, thoroughly welded and highly tempered. This produces durability where the greatest wear occurs.

OUR IMPROVED CLIMAX PLOW IS CARRIED ON THE WHEELS WHILE IT IS PLOWING. THE PLOW DOES NOT CARRY THE WHEELS AS IS THE COMMON FAULT WITH MANY OTHER MAKES.

Three and four-horse eveners, made of No. 1 clear white oak.

SULKY regularly furnished with tongue, 3-horse evener, neck yoke, rolling coulter and weed hook.

GANG PLOW furnished with tongue, 4-horse evener, neck yoke, two rolling coulters and weed hook. Average weight of sulky plows, 500 lbs. Average weight of gang plows, 730 lbs.

Right Hand Only—We Cannot Furnish Left Hand.

Prices of Improved Climax Sulky Plows (Right Hand Only)

288B500—Sulky, with 12-in. stubble bottom (all soft center steel)	\$29.00
288B502—Sulky, with 14-in. stubble bottom (all soft center steel)	29.90
288B504—Sulky, with 16-in. stubble bottom (all soft center steel)	31.00
288B506—Sulky, with 12-in. turf and stubble bottom (all soft center steel)	29.50
288B508—Sulky, with 14-in. turf and stubble bottom (all soft center steel)	30.50
288B510—Sulky, with 16-in. turf and stubble bottom (all soft center steel)	31.50
288B512—Sulky, with 14-in. open hearth steel breaker bottom and extra share	30.75
288B514—Sulky, with 16-in. open hearth steel breaker bottom and extra share	31.70
288B516—12-in. soft center steel shares. Each	Extra Shares for either Sulky or Gang Plows (Right Hand Only)
288B518—14-in. soft center steel shares. Each	\$1.80
288B520—16-in. soft center steel shares. Each	2.00
Weights of shares range from 10 to 16 lbs. Cast chilled shares fit perfectly in place of steel shares, but are recommended only for sandy, gravelly or stony soils.	2.20

Shipped from warehouse near Chicago.

Side View

Climax Two-Way Sulky Plow For Flat Land or Hillside, Horse Lift, Tilting Seat, Foot Trip, Adjustable Tongue, Steel Frame, Malleable Connections

\$39.25



Plowing one way frequently saves lots of time and short sides, and horses always turn on unplowed ground.

A combination of two separate and independent steel beam plows, each one separately controlled by levers and lifting device. When in use one plow turns the furrow, while the other is carried high to avoid obstructions. At the end of the furrow the plowing bottom is raised, the turn made, and the other one lowered to plowing position.

It is economical because only one bottom is in use at a time and it will give as long service as two ordinary plows, with its many other conveniences.

Shipped from factory in Indiana.

Western Frameless Sulky Plow

One of the best Frameless Sulky Plows made. Will do as good work, and is as easily operated, as many of the Frame Sulky Plows on the market, except that it has no Foot Lift.

One lever operates both axles when raising plow out of ground (on most other sulkies it requires two levers to do the raising), the main spring being so arranged that a boy of 12 can raise the plow with ease. The front furrow wheel swivels when turning, same as on frame plows, and is superior to the rigid wheels on other makes of frameless sulkies. The front furrow shaft always stands straight up, no matter what depth is being plowed, or when on the road. The wheels carry the load instead of the plow carrying the wheels. The adjustment and levers allow plowing from 2 to 8 in. deep, as desired. Furrow can be opened 4 to 5 in. deep. Bottoms have mouldboards, shares and landsides made of soft center steel, the same quality as in our Improved Climax. Made in right hand only. Furnished complete with tongue, rolling coulter, 3-horse evener, neck yoke and weed hook. Average weight, 390 lbs.

PRICES OF COMPLETE PLOWS

288B560—With 12-in. stubble bottom	\$23.00
288B562—With 14-in. stubble bottom	24.00
288B564—With 16-in. stubble bottom	25.00
288B566—With 12-in. turf and stubble bottom	23.40
288B568—With 14-in. turf and stubble bottom	24.40
288B570—With 16-in. turf and stubble bottom	25.50

EXTRA SHARES

Weights from 12 to 16 lbs.	\$1.80
288B572—12-in. soft center	2.00
288B574—14-in. soft center	2.20
288B576—16-in. soft center . . . . .	.55
288B578—12-in. cast chilled . . . . .	.60
288B580—14-in. cast chilled . . . . .	.70
288B582—16-in. cast chilled . . . . .	.70

Shipped from warehouse near Chicago.



Our Guarantee of Satisfaction goes with every harness we sell you

FARM SUPPLIES

Stock
Poultry
Dairy
Apiary

Factory Shipments

Some of the large articles of farm machinery are shipped to you direct from the factory.

Goods shipped from a factory are examined just as carefully by our inspectors as the smaller articles which are shipped from our store. You will always receive brand new goods, fresh from the finishing room, and whenever crating is necessary the work is carefully done to insure safe delivery.

It is very frequently the case that the freight from the factory to your station is less than it would be from our store, and this saving is yours.

We can ship some articles from two or more factories in different states, thus affording customers in widely separated states, a great saving in freight charges. For example, refer to the shipping points specified under the description of saw frames, feed cutters, corn shellers, feed mills, cider presses, etc.

Warehouse Shipments

To give Real Service and quick delivery to our customers, many articles are stocked in warehouses ready for immediate shipment. Some articles, such as Cream Separators and Gasoline Engines, can be shipped from various warehouses in different states. For a list of these warehouses, refer to Cream Separator or Engine pages.

Renewals or Repairs

We can promptly furnish Renewals or Repairs, at low prices, for any machines purchased from us. These orders will receive special attention, as we fully realize the importance of furnishing repairs and doing it quickly.

When ordering repairs, always give the name of the article, number and letter on the particular part desired, and if possible the year in which it was purchased; or, if number cannot be determined, describe the part wanted, sending a diagram if convenient, and give several of the casting numbers appearing on various other parts. Sometimes the number or letter on an original part cannot be seen plainly, but by wetting and scraping the surfaces of the part, the number or letter will show up clearly.

To avoid delay be careful to follow out fully the instructions as outlined; otherwise, it may be necessary for us to hold your order to write you for further particulars.

If you are in urgent need of any part, telegraph us, giving the information as requested, and shipment will be made immediately.

The time-worn argument about "Difficulty in Getting Repairs" is used just as frequently today as in the past, but don't permit anyone to mislead you on this point. Repairs can be promptly furnished and at low prices.

WE CAN PROMPTLY SUPPLY REPAIRS FOR THE DETROIT-AMERICAN HARROWS, CULTIVATORS, AND MANURE SPREADERS FORMERLY MADE BY THE AMERICAN HARROW CO.

Foreign Orders

We guarantee safe delivery to any port on the globe, as we have a large Foreign Department that thoroughly understands all requirements as to shipping, packing and invoicing.

Freight aboard ship is generally figured by measurement instead of weight, and the saving effected in freight due to our expert packing usually amounts to more than our charge for export boxing. We are obliged to charge the freight from factory to Chicago when goods are quoted at factory, and for the time and material used in making the heavy cases necessary for export shipment. When items quoted at factory are included in order, allowance must be made for the delay necessary to procure from factory. We explain these matters fully in the preliminary pages of our Foreign Catalogue.

Our Foreign Department will be glad to give an estimate of the charges on any of our goods to any port in the world, but it is not necessary to delay orders until you have such an estimate.

Freight to most ports must be prepaid, and if you send us cash for the goods, our Foreign Department will carefully do the necessary boxing, advance all charges and collect from you by sight draft against the bill of lading.

Climax Tractor Gang Plows

With front extended levers when used with tractors. Rear levers and riding attachments furnished to use with horse power. Two bottom gang shows front levers and connection arranged to use with tractors. Rolling coulters furnished, one to each bottom.



\$39.50

Our Climax tractor gangs, while very sturdy and strong, are intended to be used with light tractors only, that usually are capable of pulling a two bottom gang or a gang with three small bottoms. Do not order a Climax to use with the big tractors, as they are not heavy enough to stand the tremendous strain put upon them by the powerful machines that handle 4, 5 and 6 bottom gangs.

14-inch soft center steel bottoms. Will plow 6 to 8 inches deep. Bottoms can be raised 5 inches from ground. Each wheel has lever control. Steel Wheels, Axles, Frames and Levers.

Either the two or three bottom plows, when furnished for use with light tractors, have friction break attached to the end of clevis, and between the clevis and the ring that connects the tractor. The friction break consists of a wooden plug that is intended to break if the plow bottom strikes any large stones or heavy roots. The breaking of the plug saves the plow. No special attachment other than the ring with friction break on clevis is furnished, as tractor usually has draw bar with a series of holes allowing sufficient adjustment. The levers extend forward so that they can be readily handled by the operator of the engine, making it a one man outfit.

When furnished for horses the regular plow clevis only is supplied in place of the ring and friction break, also the regular short levers with riding attachment. Three horse hard wood evener is regularly furnished with two bottom plow, and a four horse hard wood evener with a three bottom plow. Average shipping weight of two bottom plow, 590 lbs.; three bottom, 725 lbs.

288B600—Two bottom plow, for use with tractor, complete with rolling coulters, friction break, and ring connections, 14 inch stubble bottoms. Price \$39.50

288B602—Two bottom tractor, same as above except with general purpose bottoms. Price \$39.75

288B604—Three bottom plow for use with tractor with 14 inch stubble bottoms, otherwise complete, as above. Price \$56.00

288B605—Three bottom plow for use with tractor, complete with 14 inch general purpose bottoms. Price \$56.50

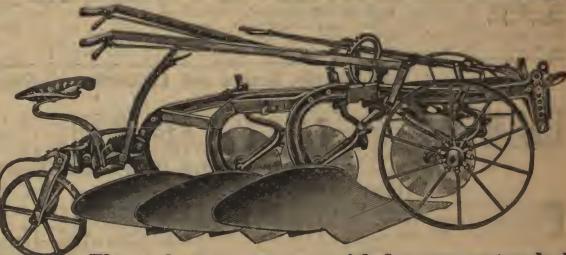
288B606—Two bottom plow, complete for use with horse power, with rolling coulters, three horse evener and 14 inch stubble bottom. Price \$34.50

288B607—Two bottom plow, same as above except with general purpose bottom. Price \$34.50

288B608—Three bottom plow for horse power, with rolling coulters and four horse evener, 14 inch stubble bottom. Price \$49.50

288B609—Three bottom plow, same as above except with general purpose bottoms. Price \$39.75

Shipped from factory in Indiana.



Three bottom gangs with levers extended in rear, and riding attachment to use with horses

Our Climax tractor gangs, when used in connection with the light tractors, will give exceptionally good service, and while they are comparatively light, adapting them to light tractors, they are exceedingly well built, the weight being properly distributed to give the greatest strength where needed. Made in one size only. Each bottom turns a 14 inch furrow, and each bottom complete with rolling coulter. High quality Soft Center Steel Bottoms throughout. These plows will scour in any soil where any of the well known plows with regular stubble or general purpose bottoms will scour.

Illustration of the two bottom plow shows construction for use with tractor. The two bottom plow can also be equipped with rear lever and riding attachment for horses only, but cannot be furnished for both horses and tractor. The illustration of three bottom plow shows equipment for use with horses, but this plow can also be furnished with the front extended levers when ordered for tractor, at the same price.

Climax Walking Gang Plow

Plows from 3 to 5 inches deep
9-inch bottom

\$17.40
or
\$26.50



Lever within easy reach.

Extra High Frame.

THE FRAME AND WHEELS ARE ALL STEEL. Turns sand and loose soil and works perfectly in any ground where a plow of the kind can be used. Mouldboards are shaped to make the draft exceptionally light. Excellent materials are used throughout. Plows sod to 4 in., corn, wheat, or oat stubble from 3 to 5 in. It does the work of three single plows. Equipped with 9-in. bottoms cutting 27 in., made with chilled and soft center steel bottoms. Chilled shares can be used with steel mouldboards if desired, but are only intended for use in sandy, gravelly or stony soil. Weight, 300 lbs.

288B610—With chilled mouldboards and shares. \$17.40

288B612—With soft center steel mouldboards, shares and landsides. 26.50

288B614—Extra soft center steel shares. Wt., 3 1/2 lbs. Each 1.35

288B616—Extra chilled shares. Wt., 4 lbs. Each .25

Shipped from factory in Southern Michigan.

Climax Subsoil Plow



Heavy Wood Beam.
Forged Steel Shoe and Cutter.
Draft Rod and Clevis.

In almost every section subsoiling is necessary. We believe the Climax will do the work better, and with less draft than any other plow built. It follows immediately after the mouldboard plow, working in the same furrow. It does not turn a furrow, but merely breaks, loosens, and lifts the subsoil beneath the furrow slice to a depth of from 10 to 14 inches, leaving the ground in the best possible condition to retain moisture and the crop to withstand drought.

Many soils have a hard, closely packed subsoil which tends to become harder and denser by continuous plowing to the same depth. A sort of artificial hardpan is formed which plant roots penetrate with difficulty and through which rain passes slowly. A subsoiler breaks through this hardpan and loosens the soil below it, so that air and water may enter. The depth of the seed bed is increased to the great benefit of the crops to be grown. The water holding capacity of some soil is practically doubled and the area in which plant roots may feed is greatly enlarged.

The Climax is substantially built, and will prove long-wearing. Wood beam, of well seasoned oak. Shoe and Cutter of forged steel. The handles are made of oak, double braced, and attached to the beam by malleable iron brackets. Requires 3 or 4 horses. A good subsoil plow which can be used to advantage on almost every farm.

Furnished complete with lead wheel, draft rod, clevis, and wrench. Shipping weight, 80 pounds.

288B622—Climax Subsoil Plow. Price \$8.25

Shipped from factory in Indiana.

Climax Middle Buster

Steel Beam, Steel Mouldboard



Crucible Steel Share. Used exclusively throughout the South and very popular in the cotton growing states.

\$5.95

3 horse adjustable Clevis.

OUR MIDDLE BUSTER is an especial favorite in the cotton and tobacco sections of the Southern States, and for use in mixed, sandy and black lands. They are built with extra heavy steel beam, with a high throat, soft center steel mouldboard and crucible steel share. Furnished regularly with rudder to guide and steady the plow. Handles of well seasoned oak.

288B626—Middle Buster, 10-in. Shipping wt., 77 lbs. Price \$5.95

288B628—Middle Buster, 12-in. Shipping wt., 80 lbs. Price \$6.40

288B630—Middle Buster, 14-in. Shipping wt., 87 lbs. Price \$6.85

288B631—Extra Crucible Steel Share, 10-in. Shipping wt., .80

4 lbs. Price .80

288B632—Extra Crucible Steel Share, 12-in. Shipping wt., .86

7 lbs. Price .86

288B634—Extra Crucible Steel Share, 14-in. Shipping wt., 1.10

8 lbs. Price .86

Shipped from factory in Ohio.

Acreworth Harrow Attachments

For Right Hand Plows only

THERE PROBABLY IS NO OTHER PIECE OF MACHINERY ON THE FARM THAT WILL GIVE AS BIG RETURNS FOR SO LITTLE EXPENSE. WHEN ATTACHED TO YOUR SULKY OR GANG PLOW IT DOES AWAY WITH THE WORK OF HARROWING THAT IS HARD ON HORSES. THE DRAFT ADDED TO YOUR PLOW IS SO SLIGHT THAT YOUR TEAM WILL DO AS MUCH WORK WITH THE HARROW AS WITH IT OFF.

Steel frame spring lever. Places the side pressure directly against the rear furrow. No more powerful attachment of its kind made. Pressure can be thrown on the side to suit the conditions of the soil instead of own weight. By means of the automatic device the harrow is held in an elevated position by its own weight. Connects to the frame in two places, thereby dividing the strain. Cannot furnish for left-hand plows.

Prices are for harrows and attachments only. Complete, ready to attach to plow.

288B640—Rotary harrow with attachment for sulky, cuts 17 in. Shipping weight, 70 lbs. \$6.15

288B642—Rotary harrow with attachment for gang, cuts 32 in. Shipping weight, 90 lbs. \$7.20

\$6.15
or \$7.20

Shipped from Warehouse near Chicago.

Larimer Ditching Plow

DESIGNED to do the digging or loosening up of the earth in the ditch, after which it is shoveled out. It will work in the hardest ground to the depth of at least 3 feet. On frequent tests two men and two horses have thrown out 40 rods per day out of a ditch 16 inches wide and 3 1/2 feet deep.

HAS ALL CHILLED BOTTOM and makes a furrow 8 inches wide. Any width of ditch from 8 inches can be made by going back and forth with the plow.

THE TILE BED SHOVEL regularly furnished with plow, is for finishing up the bottom of the ditch ready for laying the tile. It grades and levels all uneven places so that the fall of the tile is exactly uniform. This is a very important attachment for tiling, as it gives a true groove in the bottom of the ditch. It is bolted to the bottom of the standard and can readily be removed when desired.

Bottom is made of hard chilled iron. Beam and handle of seasoned oak.

HAS SUB-SOIL ATTACHMENT consisting of shield or plate that attaches to side of plow converting ditcher into an excellent sub-soiler; also adjustable beam that allows setting ditcher to follow right or left hand plow.

COMPLETE DIRECTIONS explain how to operate and how to adjust the beam for shallow or deep plowing. Shipping weight of plow, with tile bed shovel, 150 lbs.

288B648—Plow complete, with tile bed shovel and sub-soil attachment. \$12.25

288B650—Extra points. Shipping weight, 10 lbs. each. Price .60

288B652—Steel shares, extra. Shipping weight, 15 lbs. 2.50

Shipped from factories in Illinois or Pennsylvania.

Especially made for excavating drain for tile, stone, sewer pipe, etc.

\$12.25

Thousands in satisfactory use

With Tile Bed Shovel, Gauge Shoe and Cutter

Prairie King 3-Horse Plow Set
All wood parts of thoroughly seasoned straight grained oak.
Large and strong. Suitable for heaviest plowing.

\$1.70

Shipped from Warehouse near Chicago.

Exceptionally strong and serviceable. For plowing, harrowing, grading or for use on any implement without tongue. All wood parts are made of thoroughly seasoned oak, full size. Length of main evener, 44 in.; short evener, 30 in.; single-tree, 28 in. Steel hooks and clevises. Shipping weight, 30 lbs.

188B658—3 Horse Evener. Price \$1.70

Ford's Four and Five-Horse Plow Eveners

\$4.60



For gang, sulky or disc plows. To work one horse in the furrow and the others on the unplowed ground. Regularly furnished for beam clevis attachment. Frame Hitch Attachment. Shipped set up for right hand plows, but work just as well on left from side draft. Each horse pulls its share. All woods of thoroughly seasoned, straight grained oak. Metal parts of steel and malleable iron.

288B664—Four-horse Evener. Shpg. wt., 65 lbs. Price \$4.60

288B666—Ford's Five-horse Evener. Shpg. wt., 95 lbs. Price \$5.95

288B668—Frame Hitch Attachment. For either Four or Five Horse Evener. Can be attached to any frame hitch plows. Made of malleable iron. Shpg. wt., 9 lbs. Price .95c

288B670—Binder Attachment. To use Four Horse Evener on binders. Shpg. wt., 12 lbs. Price .85c

Shipped from Warehouse near Chicago.

\$5.95



Climax WALKING PLOWS

Double Shin Mouldboards, 5/16-Inch Shares

Mouldboards are Double Shin. Landsides are reinforced at heel. Patent welded land-bar and frog, double beaded steel beam with high bend to allow trash to clear easily. Handles are steam bent and strongly braced with wood round, iron rod, iron beam brace, and an iron set brace below; adjustable 3-horse clevises. They are of light draft, excellent pulverizers and particularly recommended to farmers who rotate their crops.

OUR Climax Plows are manufactured by two large and reliable factories, and the same plows under other names are sold by dealers throughout the country at very much higher prices.

We furnish renewals or repairs promptly, and shall always have them ready for delivery.

We invite comparison with others of the well known makes. The 14-in. size is sold at retail at \$12 to \$14. We offer the same grade at \$9.95. Compare the general appearance, the workmanship and construction.

Extra shares, or other parts for Climax plows, furnished promptly at all times. See Directions on another page for ordering renewals or repairs.

\$8.45 to \$11.05

Easily Handled
Strongly Braced
Long Wearing

WHEN you buy a Climax you have a plow with a national reputation, a plow that has been in use among the farmers of this country and in foreign lands for a great many years; A PLOW THAT CAN BE DEPENDED UPON to scour easily, to turn a perfect furrow. It is well balanced in every way and can be easily handled. From the tips of the points to the tops of the handles the Climax plows are well built of first class materials, strongly braced.

Climax Turf and Stubble or General Purpose Plows

Plows of this kind are known by the long, easy turn of the mouldboard which adapts them for use in tame sod, stubble and fallow plowing. There are more of these in use than any other two styles on the market. Turf, trash and weeds are turned and covered. The shape of the mouldboard is such that

the top soil is turned completely under. These plows are especially used for plowing in clover, timothy, or alfalfa, heavy stubble; also old pasture land, clay soil or for top plowing. In fact, they are for general purpose work. Average shipping weights—12 in., 100 lbs.; 14 in., 110 lbs.; 16 in., 120 lbs.

Mouldboards, Shares and Landsides, All Soft Center Steel

	RIGHT HAND	LEFT HAND
188B700	12-in. Turf and Stubble. Price \$8.45	288B712—12-in. Turf and Stubble. Price. \$8.50
188B702	14-in. Turf and Stubble. Price. \$9.70	288B714—14-in. Turf and Stubble. Price. \$9.75
188B704	16-in. Turf and Stubble. Price. \$11.00	288B716—16-in. Turf and Stubble. Price. \$11.05

Extra Shares (Soft Center Steel)

	RIGHT HAND	LEFT HAND
88B706	12-in. Share, Wt. 11½ lbs. Price. \$1.85	288B718—12-in. Share, Wt. 11½ lbs... \$1.87
88B708	14-in. Share, Wt. 12½ lbs. Price. \$2.05	288B720—14-in. Share, Wt. 12½ lbs... \$2.08
88B710	16-in. Share, Wt. 14½ lbs. Price. \$2.20	288B722—16-in. Share, Wt. 14½ lbs... \$2.22

Right Hand Plows or Shares shipped either from our store or from factories near Chicago.

Left Hand Plows or Shares shipped only from factories near Chicago.

NOTICE—WHEN ORDERING EXTRA SHARES or parts, be sure to state the article number, name, price and style of your plow and the date of purchase. Also state the style, whether Turf and Stubble, or Stubble, and whether right or left hand. Also state the numbers and letters on the original share or part. The numbers and letters are always stamped on the backs of shares. If these numbers and letters cannot be seen at once, they will show up clearly by writing and scraping the surface of the share or part.

Our Stubble or Old Land Plows are the same in construction as our Turf and Stubble or General Purpose Plows shown in picture, the difference being in the length and shape of the mouldboard, the stubble plows having a shorter board with shorter curve, and when used on old land turns the furrow

in a way that assists pulverizing. Mouldboards, Shares and Landsides are made of high quality, soft center steel and will scour in any soil where any other plow will. Average weights—12 in., 100 lbs.; 14 in., 110 lbs.; 16 in., 120 lbs.

Mouldboards, Shares and Landsides, All Soft Center Steel

	RIGHT HAND	LEFT HAND
188B728	12-in. Stubble Plow, Right Hand. \$7.95	288B740—12-in. Stubble Plow, Left Hand. \$8.00
188B730	14-in. Stubble Plow, Right Hand. \$9.20	288B742—14-in. Stubble Plow, Left Hand. \$9.35
188B732	16-in. Stubble Plow, Right Hand. \$10.50	288B744—16-in. Stubble Plow, Left Hand. \$10.60

Extra Shares (Soft Center Steel)

	RIGHT HAND	LEFT HAND
88B734	12-in. Stubble Share, Wt. 11½ lbs. \$1.80	288B746—12-in. Stubble Share, Wt. 11½ lbs. \$1.80
88B736	14-in. Stubble Share, Wt. 12½ lbs. \$2.00	288B748—14-in. Stubble Share, Wt. 12½ lbs. \$2.05
88B738	16-in. Stubble Share, Wt. 14½ lbs. \$2.20	288B750—16-in. Stubble Share, Wt. 14½ lbs. \$2.25

Right Hand Plows or Shares shipped either from our store or from factories near Chicago.

Extras for Climax Plows

288B755—Steel Fin Cutter, Right or Left Hand. State which. Weight. 8 lbs.	\$0.50
288B757—Quincy Reversible Cutter with clamp, Right or Left Hand. State which. Weight. 8 lbs.	1.30

Cutters shipped with plows either from our store or from factories near Chicago.

Climax Hazel or Brush Plows

Steel Braced Adjustable Beam

\$8.75

and \$9.25
Right Hand
Only
Adjustable
Beam, Reversible
Cutter, No
Better Made.

STRONG, WELL BRACED, and made for hard work. Double Shin. FOR USE IN BRUSH LAND OR PLOWING AMONG STUMPS OR FOR LIGHT ROAD PLOWING. Made for extra heavy work that cannot be handled with an ordinary plow. Can also be used in old ground or tame sod. Beam is of well seasoned hardwood, made extra heavy and strong; plow has a braced steel Standard; reversible steel cutter; strap on bottom of beam extending from the standard forward to the clevis pin; extra hardened steel shares made for extra heavy work; steel mouldboard; solid steel landside. Has welded land-bar and frog; handles are strong and heavy and well braced so as to stand heavy work. Has a double shin which lasts twice as long as the single. Price includes this plow with reversible cutter, gauge wheel and adjustable clevis. Complete. Equal to plows retailing at considerably higher prices. Ship. wts. of extra shares, 12 in. share, 10 lbs.; 14 in. share, 13 lbs. Right Hand only. Not made in Left Hand.

Art. No.	Price	Size	Ship. wt.	Extra Shares
288B815	\$8.75	12 in.	110 lbs.	12 in. \$1.65
288B817	8.25	14 in.	120 lbs.	14 in. \$1.85

Shipped from Warehouse near Chicago.

AN EXCELLENT ONE-HORSE PLOW FOR USE IN NURSERIES, ORCHARDS, OR VINE-YARDS, ALSO USEFUL AS A LIGHT GENERAL PURPOSE PLOW.

\$5.95 and \$7.65

The beam is adjustable,

so the horse can walk in the furrow or on the land; the handles can be shifted to right or left, which enables the plowman to walk away from trees, vines, shrubs, etc. The standard is shaped so that it cannot clog, all litter being carried to the bottom of the furrow. The shape of the mouldboard makes the plow exceedingly light draft. Landside and point are chilled cast iron. The mouldboard is either chilled with ribbed back or soft center steel. Made in right hand only. Extra share and wrench with each plow. Coulter and wheel are extra. Shipping weight, 100 lbs.

288B842—Plow with chilled mouldboard.	\$5.95
288B843—Plow with soft center steel mouldboard.	7.65
288B846—Knife Coulter, extra; shipping weight, 7 lbs.	1.85
288B848—Lead Wheel, extra; shipping weight, 10 lbs.	2.85
288B850—Extra Cast Points; shipping weight, 5 lbs.	3.00

Shipped from factory in Michigan.

Climax Vineyard Plows

Will turn a furrow from 8 to 12 inches wide by 3 to 8 inches deep.

so the horse can walk in the furrow or on the land; the handles can be shifted to right or left, which enables the plowman to walk away from trees, vines, shrubs, etc. The standard is shaped so that it cannot clog, all litter being carried to the bottom of the furrow. The shape of the mouldboard makes the plow exceedingly light draft. Landside and point are chilled cast iron. The mouldboard is either chilled with ribbed back or soft center steel. Made in right hand only. Extra share and wrench with each plow. Coulter and wheel are extra. Shipping weight, 100 lbs.

288B842—Plow with chilled mouldboard.	\$5.95
288B843—Plow with soft center steel mouldboard.	7.65
288B846—Knife Coulter, extra; shipping weight, 7 lbs.	1.85
288B848—Lead Wheel, extra; shipping weight, 10 lbs.	2.85
288B850—Extra Cast Points; shipping weight, 5 lbs.	3.00

Shipped from factory in Michigan.

Climax Hillside Plows

\$4.25

to \$7.85

Reversible bottom for right or left side

Extra Share with each Plow Strongly Made, Easy to Handle

Made especially for hillside work, but will do good work in level land where it is desirable to throw the ground one way. Well adapted for garden work. From a well known Plow Factory.

This is the simplest and easiest swinging hillside plow that we know of. Mouldboard, share and landside are of the very best chilled iron; beam is of special length, selected hardwood; handles are strong and well braced. A foot lever is used to unlock the plow; a slight pressure of the foot, with movement of the team, the mouldboard and share roll under the standard and it is clamped in position.

EXTRA SHARE WITH EACH PLOW

Price	Size	Weight	Furrow Capacity	Extra Shares
288B856—\$4.25	A.	75 lbs.	5 x 9 in.	26c 4½ lbs.
288B858—6.50	B.	85 lbs.	5½ x 10 in.	30c 4½ lbs.
288B860—6.70	C.	115 lbs.	6 x 12½ in.	40c 7 lbs.
288B862—7.85	D.	140 lbs.	7 x 13 in.	44c 11 lbs.

Gauge wheel and reversible jointer for plows B, C or D only, at an extra charge as follows:

288B864—Gauge Wheel.	Shipping wt., 13 lbs.	\$0.60
288B866—Reversible jointer.	Shipping wt., 22 lbs.	1.50

Shipped from warehouse near Chicago.

Every Farmer Needs One

\$1.90

Wings can be opened to 28 inches

good, strong material throughout.

f. 2.50 to \$3.00.

188B892—Wing Plow. Ship. wt., 36 lbs. Price. \$1.90

188B894—Blades with wings. Ship. wt., 14 lbs. Price. .96

desired angle. It is sometimes convenient to work it with one wing, which can readily be done, or the two wings can be worked at one time at different angles. For covering they are almost indispensable.

Built very strong and substantial, with

wings, which can be let out to any

angle.

Generally sold at retail for about

desired angle. It is sometimes convenient to work it with one wing, which can readily be done, or the two wings can be worked at one time at different angles. For covering they are almost indispensable.

Built very strong and substantial, with

wings, which can be let out to any

angle.

Generally sold at retail for about

desired angle. It is sometimes convenient to work it with one wing, which can readily be done, or the two wings can be worked at one time at different angles. For covering they are almost indispensable.

Built very strong and substantial, with

wings, which can be let out to any

angle.

Generally sold at retail for about

desired angle. It is sometimes convenient to work it with one wing, which can readily be done, or the two wings can be worked at one time at different angles. For covering they are almost indispensable.

Built very strong and substantial, with

wings, which can be let out to any

angle.

Generally sold at retail for about

desired angle. It is sometimes convenient to work it with one wing, which can readily be done, or the two wings can be worked at one time at different angles. For covering they are almost indispensable.

Built very strong and substantial, with

wings, which can be let out to any

angle.

Generally sold at retail for about

desired angle. It is sometimes convenient to work it with one wing, which can readily be done, or the two wings can be worked at one time at different angles. For covering they are almost indispensable.

Built very strong and substantial, with

wings, which can be let out to any

angle.

Generally sold at retail for about

desired angle. It is sometimes convenient to work it with one wing, which can readily be done, or the two wings can be worked at one time at different angles. For covering they are almost indispensable.

Built very strong and substantial, with

wings, which can be let out to any

angle.

Generally sold at retail for about

desired angle. It is sometimes convenient to work it with one wing, which can readily be done, or the two wings can be worked at one time at different angles. For covering they are almost indispensable.

Built very strong and substantial, with

wings, which can be let out to any

angle.

Generally sold at retail for about

desired angle. It is sometimes convenient to work it with one wing, which can readily be done, or the two wings can be worked at one time at different angles. For covering they are almost indispensable.

Built very strong and substantial, with

Finished Fitted Plow Shares \$1.35 and up

With Bolts Ready to Attach

Right hand shares only, as listed below. When ordering, be sure to give article number, size of share wanted, the name or make of your plow, and the exact figures and letters which are on the back of the old share.

Solid crucible steel shares are made for sandy, gravelly or stony soils. Soft center steel shares are used in heavy or sticky soils, where perfect scouring and hardened wearing face are required.

Thickness of all shares, $\frac{1}{4}$ inch, unless otherwise shown in list.

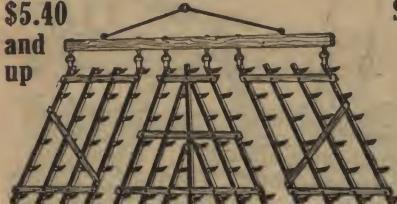
CANTON	Size	DEFIANCE	EMERSON	MOLINE	OLIVER	ROCK ISLAND	SATTEY	GANG
No. 54	16 in.	No. 97	12 in.	No. C 1	14 in.	No. P 33-1/4 or 5/16	No. 186	No. 8
No. 49	14 in.	No. 97	14 in.	No. F D 11	16 in.	No. 40-5/16 only	No. 69	No. 9
No. 46	14 in.	No. 92	16 in.	No. F D 11-1/4 or 5/16	16 in.	No. 30-3/4 only	No. 181	No. 10
No. 128	14 in.			No. H 116	16 in.	No. 32-5/16 only	No. 182	No. 11
No. L 33	12 in.	No. N-14-R-1/4 or 5/16	14 in.	No. FSD 1	12 in.			
No. L 45	14 in.	No. N-16-R-1/4 or 5/16	16 in.	No. D 1	14 in.			
No. L 70	16 in.			No. D 10	16 in.			
No. 147-5/16 only	14 in.							
CASE								
No. AP	16 in.	No. 8						
No. A S	16 in.	No. 9						
No. A S	14 in.	No. DS 8						
No. A N	12 in.	No. DS 8						
No. AP	14 in.							
No. A. D. L. 5/16 in. only	16 in.							
(A-S-12 in. Same as A-N-12 in.)								
CASADAY								
No. 514-5/16 in. only	14 in.	No. 186						
No. 516-5/16 in. only	14 in.	No. 69						
No. 515-5/16 in. only	14 in.	No. 181						
No. 517-5/16 in. only	16 in.	No. 182						
DEERE								
No. P 33-1/4 or 5/16	14 in.							
No. 40-3/4 or 5/16	16 in.							
No. X42-5/16 only	14 in.							
No. 33-3/4 or 5/16	14 in.							
No. 31-3/4 or 5/16	12 in.							
No. 42-3/4 or 5/16	14 in.							
No. 46-3/4 or 5/16	16 in.							
No. 152-5/16 only	12 in.							
No. 157-5/16 only	14 in.							

PRICES

SOLID STEEL	Size	Shipping Weight	$\frac{1}{4}$ in. thick.	5/16 in. thick.
88B900	12 in.	10 1/2 lbs.	\$1.35	\$1.40
88B902	14 in.	12 lbs.	1.50	1.55
88B904	16 in.	13 lbs.	1.65	1.70
SOFT CENTER STEEL				
88B906	12 in.	10 1/2 lbs.	\$2.00	\$2.10
88B908	14 in.	12 lbs.	2.20	2.30
88B910	16 in.	13 lbs.	2.50	2.60

New Steel Boss Smoothing Harrows

\$5.40
and
up



TWO-HORSE-78 TEETH

springiness and still hold the section in shape. The 4 and 6-horse harrows, furnished with chain equalizer as shown in smaller illustration. All smaller harrows furnished with plain hardwood draw bar only. Tooth bars are made of $1\frac{1}{4} \times 1\frac{1}{4}$ inch heavy angle steel. Teeth are $\frac{1}{4}$ inch square, made of high carbon steel, dagger pointed; length, 9 in.

288B928-2-Horse, 60 teeth, cut 10 1/2 ft. Shipping weight, 145 lbs. Price \$5.40

288B990-2-Horse, 78 teeth, cuts 13 ft. Shipping weight, 190 lbs. Price \$6.95

288B992-3-Horse, 90 teeth, cuts 15 ft. Shipping weight, 205 lbs. Price \$8.15

288B994-3-Horse, 102 teeth, cuts 16 1/4 ft. Shipping weight, 250 lbs. Price \$9.10

Shipped from factory in Southern Minnesota.

Steel Tooth Bars with Clipped Teeth
Clips Put On Hot. Teeth Cannot Get Lost

Made entirely of steel, with the exception of the top cross braces and draw bars. Will last indefinitely. The teeth cannot get loose, the bars will neither check nor slip, nor twist out of shape. The asphaltum coating protects the steel better than any paint can protect wood.

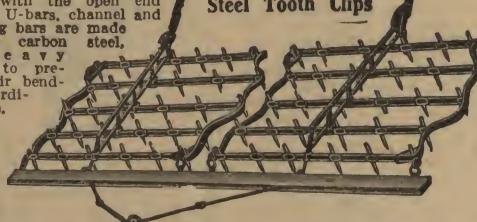
Teeth are fastened squarely against high carbon angle steel bars and are firmly clipped, making it impossible to work loose and get lost. The wood cross braces on top of bars give the harrow sufficient

Climax Closed End Lever Harrows

Channel steel bars, attached at ends, prevent tooth bars from catching on obstructions, as sometimes happens in stony or stumpy ground with the open end harrow. U-bars, channel and oscillating bars are made of high carbon steel, and heavy enough to prevent their bending in ordinary use.

All Steel U Bars
25 and 30 Tooth Sections
Steel Tooth Clips

\$3.75
and
up



Corner braces, oscillating castings and lever castings made of malleable iron. Harrow throughout is strong, well made, and with no unnecessary weight.

Has five bars to each section; levers to set teeth at any angle desired; outer teeth on the first, third and fifth bars with extended loop ends that act as runners for transporting. Furnished with $1\frac{1}{2} \times 1\frac{1}{2} \times 9$ in. or $\frac{3}{4} \times 10$ in. steel teeth. A 25-tooth section cuts 4 ft. A 30-tooth section cuts 5 ft. Hardwood draw bars furnished with 2, 3 and 4-section harrows only. $\frac{1}{2}$ -inch tooth harrows weigh 5 per cent more than the weights for $\frac{1}{2}$ -inch tooth harrows given below.

Article Number	Sections	Price, $\frac{1}{2}$ in. Teeth	Price, $\frac{1}{2}$ in. Teeth	Teeth	Ship. Wt., lbs.
288B1020	1	\$ 3.75	\$ 3.95	25	.85
288B1022	1	4.15	4.40	30	.90
288B1024	3	8.20	8.75	50	1.75
288B1026	3	8.95	9.50	60	1.93
288B1028	3	12.25	12.95	75	2.60
288B1030	3	13.50	14.50	90	2.90
288B1032	4	16.75	17.65	100	3.40
288B1034	4	18.35	19.95	120	3.86

Shipped from factory in Ohio.

Climax Harrow Cart

Seat convenient to levers on harrow. An extremely simple method of reducing the hard work of the operator. The pivot frame foot lever and automatic lock mechanism allow the wheels to readily adapt themselves to the line of the harrow when turning corners. Extension arms are intended to attach to the draw bars of harrow with clamps and bolts without boring holes in draw bars. Extension arms are long enough to fit any of the well known makes of harrows; length, 70 in. from front of wheels to the swivel bolts. Wheels are steel, diameter, 26 in., with 3-inch oval tires. Seat is mounted on spring that is sufficiently flexible to relieve most of the jar in going over the plowed ground. Ship. wt., 115 lbs.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

288B1050—Price \$4.90
With Spring Seat

Shipped from warehouse near Chicago.

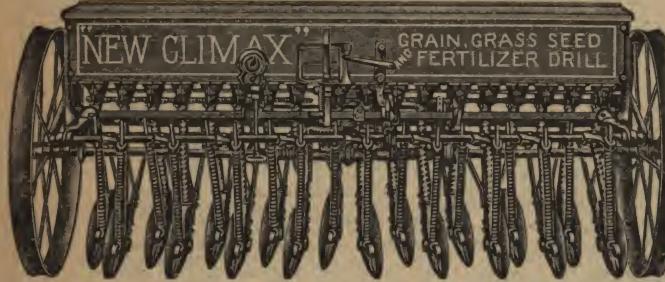
288B1050—Price \$4.90
With Spring Seat

New Climax Grain and Clover Drill

18 Disc, 4 Inches Apart. Sows Less Seed to the Furrow.
Drills More Furrows.

Seed Drills

Complete Outfit for All Kinds of Grains and Grass Seeds, with Fertilizer. Sows Seeds and Fertilizers in Rows Only 4-inches Apart
For Wheat, Oats, Barley, Rye, Soy Beans, Alfalfa, Red Mammoth or Japanese Clover, Timothy, Orchard Grass, Cow Peas, Etc.



Our New Climax Combination Drill with its many important advantages, makes it one of the most desirable drills used on the farm. Its completeness, and the many uses that the average farmer has for it, makes it far more economical than the purchase of several separate drills that would be required to do the same work.

It will accurately sow the small, expensive seeds such as alfalfa, blue grass, clover, etc. You can drill clover in your winter wheat and cultivate the wheat with one operation. A fine stand of clover can be secured by drilling from 6 to 8 pounds per acre, insuring a far better yield than when the clover is broadcasted with a great amount of waste. It is estimated that in drilling clover alone, 30 acres will pay for the drill in the saving of seed and increase of crop over the usual method of broadcasting.

You increase your yield nearly double over the seven and eight inch drills by sowing with a New Climax Combination Drill in furrows four inches apart. The increased yield is obtained with the same operation. It means more plants to the square foot, and a seed saving on account of even distribution.

One hopper only is furnished with drill, but is divided into two parts: one for grain and grass seeds, and the other for fertilizer. Has agitator to force seed, insuring uniformity. Hopper is equipped with an acre measure and a quantity indicator with a large range of quantity adapting it to the requirements of most any farmer. Hopper holds approximately 2 bu. of grain, and will sow from 75 up to 600 lbs. of fertilizer per acre, as desired.

Has lever on side of hopper to raise discs. A strong lifting spring aids the lever so that a boy

can easily and quickly raise discs out of ground when required.

The discs, 18 in. all, are high carbon steel, self sharpening, and 10 in. diameter. Diameter of drive wheels, 36 in. with 3 in. tires.

Wheels do not extend above top of hopper and therefore prevent dirt being carried up on the hopper as happens with high wheels.

Sows about two corn rows in width, or 84 in. wide. Width of drill front cut to out of wheels, 8 ft.

A timothy attachment is regularly furnished on the front of the machine so that timothy, clover, alfalfa, and other small seeds can be broadcasted in front of the discs when drilling wheat in the fall, if the operator so desires.

Can be used for cultivating crop without injury to the tender roots by throwing the clutch out of gear and using the drill as a disc cultivator.

Plenty of clearance between each disc. No trouble in trashy or corn stalk ground.

Seed or fertilizer has direct drop from the time it leaves the hopper until deposited in the furrow; no chance for clogging.

When fertilizer is not used, throwing the fertilizer lever out of gear automatically disengages all of the fertilizer parts.

The complete equipment includes combination hopper for grain, small seeds, and fertilizer; timothy attachment; pole with neck yoke and double trees; acre measure; and quantity indicator. Complete directions for operating. Shipping weight, complete, 1,020 lbs.

288B1400—New Climax Combination Drill complete. Price \$98.00

Shipped from factory in Ohio.

Improved King Corn Planter

Two Sizes
30 or 40-inch wheels

Open or Closed
Wheels

Over 15,000 satisfied
Users consider the
Improved King
Second to None

Showing Fertilizer
Hoppers on
30-inch Planter

Shipping weights range from 400 to 600 lbs.
288B1436—Without check rower or wire. Otherwise complete. \$23.75
288B1438—with check rower, reel of 80 rods of wire and marker. .28.25
288B1440—Price of fertilizer attachment extra. Ship. wt. 150 lbs. .92.25
288B1442—Price extra check rower wire with check-buttons from 3 to 4 ft. apart. (State size, otherwise will send regular 3 ft. 8 in. size.) Weight, per rod, about 1/2 lb. .32c

Per rod Shipped from factory in Indiana.

Climax 5 Disc Grain Drill

For wheat, oats, rye and barley. Especially adapted for use between rows of corn

\$2000

Spring Wings;
Hardwood
Frame;
No Side Drafts.

With or Without
Fertilizer.

Covering discs are hung V shape, securing lightness of draft, and proper clearance of obstructions. Outer wings are bolted independently to frame in front and kept extended by pressure spring working automatically, allowing them to pass the corn hill out of line as well as other obstructions. Heavy steel yokes prevent riding out of ground, also regulate extreme width of cut. Width of cut is readily changed for any size row from 3 ft. 4 in. to 3 ft. 10 in. inclusive. Discs are concave, diameter, 13 in. The drill itself will cut from 29 to 36 inches. Boots that carry seed are bolted firmly to the frame and carry the disc in correct line. Extensions of boot act as scrapers for the disc, and also acts as a furrow opener, providing a seed bed of proper width.

Furnished as a drill only or combination drill with fertilizer attachment. (Cut shows drill with fertilizer.) The grain hopper holds about one-half bushel. The grain feed is a fluted roll with the cut-off bolted securely to feed rod, assuring accurate distribution, as all rolls must sow alike, and are controlled by lever which indicates on the gauge the amount sown. Will sow small beans and any kind of smaller seed grains.

When furnished with drill, the fertilizer operates independent of the seed hopper and either one or both can be operated at one time as desired.

Hitch ring is set 3/4 in. out of center, thus avoiding any side draft. Handles have iron fenders on hand holds.

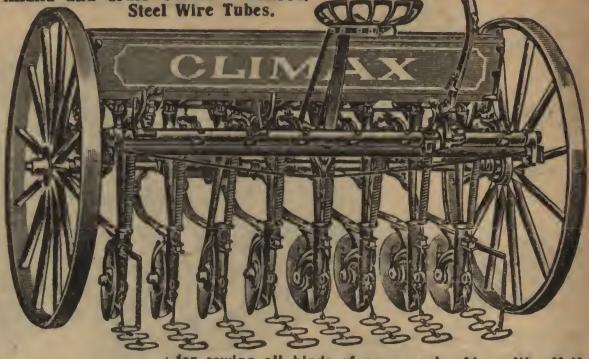
288B1450—With grain hopper only. Shipping weight, 190 lbs. \$20.00
288B1452—Complete with fertilizer. Shipping weight, 235 lbs. \$26.50
288B1454—Grass Seed attachment. Extra shipping weight, 20 lbs. 2.50

Shipped from factory in Indiana.

Climax Disc Drill

\$42.75
and up

With Chain Covers. With or Without Fertilizer
Alfalfa and Grass Seeder if desired.
Steel Wire Tubes.



Built by one of the most prominent manufacturers of seeding machinery.

The Frame is built of one continuous piece of 1 1/4-inch steel pipe, bent at corners and securely braced. 10 disc drills have frames reinforced by single rear steel truss rod as shown, 12, 14 and 16 discs have double truss in front and single truss in rear. This construction prevents any danger of sagging in center.

The Gear Box is placed on an axle that provides for increasing or decreasing the quantity of seed sown. Dial plate in view of the operator shows the quantity to be sown in pecks. On the square shaft of the gear box are three sprocket wheels, the smaller being used to sow wheat in ordinary quantities and the larger to be used when excess quantities are to be sown, such as long bearded oats, etc.

Discs are concave, 13-in. diameter, and hung in correct line for light draft. Extension of boot acts as scraper for disc, also as furrow opener for the seed bed. Disc pressure consists of coil oil tempered steel springs applied at rear of boot. A ratchet lever applies any desired pressure.

Drag Chains level the ground after the seed is deposited. The two end chains are automatically carried clear of the ground wheels when turning. Tires are spring steel wire, japanned, and will last indefinitely. Diameter of wheels, 48 in.; have wood rims and spokes, and iron hubs. 8, 10 and 12 disc drills have 3-in. tires, 14 and 16 disc drills have 4-in. tires. Axle is 1/2 in. cold rolled steel on drills up to 12 disc; 1 1/4-in. on 14 and 16 disc drills.

Furnished as a grain seeder only, or combination fertilizer and grain drill with grass seed attachment

288B1402—8 discs, 8 in. apart, single lever, 2 horse evener	\$42.75	\$ 58.75
288B1404—10 discs, 7 in. apart, single lever, 3 horse evener	\$51.00	69.00
288B1406—10 discs, 8 in. apart, single lever, 3 horse evener	\$54.00	69.00
288B1408—12 discs, 7 in. apart, double lever, 4 horse evener	\$60.50	81.00
288B1410—12 discs, 8 in. apart, double lever, 4 horse evener	\$61.00	81.25
288B1412—14 discs, 7 in. apart, double lever, 4 horse evener	\$68.25	91.25
288B1414—14 discs, 7 in. apart, double lever, double tongue, 4 horse evener	\$75.00	101.00
288B1416—Iron seat for either size drill, with spring convenient to levers. Weight, 15 lbs. Extra 2.00		2.00

288B1418—Force feed grass seeder, fitted with deflector seed board, to sow in front or behind the discs. For 8 and 10 disc sizes; extra weight, 30 lbs.	\$3.00	
For 12, 14 and 16 disc sizes, extra weight, 50 lbs.		3.60
288B1420—Alfalfa seeder, for sowing direct into grain spouts with grain or separate, as desired, fitted to 8 and 10 disc drills, extra shipping weight, 15 lbs.	\$4.75	
To 12, 14 and 16 disc drills; extra shipping weight, 20 lbs.		5.75

Shipped from factory in Indiana.

Reliable Broadcast Seeder

For Broadcasting Wheat, Oats, Rye, Barley, etc.

The hopper is U shaped, length, 11 ft.; thoroughly bolted together, and has three partitions extending to top of box. The adjustment for the proper amount of seed to the acre is quickly made. The main shaft which bears the entire weight of seed box is 1 1/4-in. solid steel 36-in. steel wheels, with 2 1/2-in. tires.

Can ride or walk as desired. Directions with each. Doubletree, singletree or neck yoke not furnished. Shipping weight, 335 lbs.

288B1428—Price \$15.25 288B1430—Reliable Broadcast Seeder. With Force Feed in place of Agitator Feed.

288B1432—Grass Seed attachment for either Force Feed or Agitator Feed. Price \$3.10

Shipped from factory in Indiana.



AGITATOR FEED

Every one carefully fitted and tested

\$23.75 to \$32.90

Round Steel Tilting Hoppers

30 or 40
Inch
Wheels

40-Inch
Planter
with check
rower
wire

Places
the right
number in
every hill
and every
hill in
the right place.



Climax Shoe Corn Drill, With or Without Fertilizer

Four Seed Plates

The frame is of 1 1/4 x 1/4 in. steel, bolted front and rear. The large concave metal drive wheel covers and presses the soil over the grain sown.

Scrapers on the drive wheel in rear. Regularly furnished with four plates, three for drilling 12, 15 and 20 in. apart, and one blank plate to be drilled to fit any other kind of seed desired to be sown. Has metal cut-off. Driven by chain direct from axles, and can be thrown in and out of gear while drill is in motion. When ordered without fertilizer the large

More Corn per Acre
Insures Bigger Crops
Saves the Seed. Every nail in Right Depth

A simple, all steel contrivance consisting of two runners with adjustable arches to attach to corn planter runners. Insures even depth, as it prevents the runners from going too deep into the ground. No matter how rough or irregular the field, the gauge insures uniform depth. Except when the soil is extremely wet, it will do satisfactory work in all kinds of soils and under all conditions. No danger of clogging with trash, as the construction of the runners is such as to throw off any rubbish it comes in contact with. The gauge is adjustable so that it can be raised or lowered for shallow or deep planting. Furnished in sets of two, one for each runner. Shipping weight, per set, 11 1/4 lbs.

188B1466—Price, per set \$1.65

288B1460—Plain, without fertilizer. Shipping weight, 110 lbs. Price \$7.95

288B1462—Complete, with fertilizer. Shipping weight, 135 lbs. Price \$10.35

Disc Furrow Openers \$3.75 Per Set

Intended to fit on the runner of any runner corn planter, to open up a wider and deeper furrow than the regular runner will make. Consists of two hardened steel disc blades, diameter, 11 in., that run on an axle fitted with an adjustable chilled box. The box is dustproof and carries an abundance of grease, is attached to runner by four steel set screws through a strong bracket that fits over runner. Especially desirable where dry weather is frequent, as the seed is placed deep where the soil is moist. A set consists of two complete attachments, one for each runner. Shipping weight, per set, 32 lbs. (Runner, Shoe and Seed Box shown in cut not furnished.)

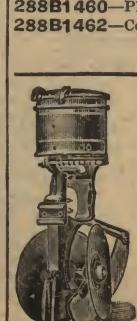
188B1472—Price, per set for two runners \$3.75

Repair your worn
out corn planter
runners, at small cost,
thus making them
practically as good
as new.

Showing repair at-
tached to worn planter
runner.

Will fit any two-horse runner corn planter. Are easily attached by drilling three holes through the old runner. The wear on your runners is in one place and they therefore are usually the first parts of a corn planter to wear out. You cannot afford to discard your planter just on account of worn out runners. Get a pair of these. Make the runners as good as new, at a price away below any other method of making repairs. Made of extra hard, high carbon steel. Furnished with the rivets to attach. Shipping weight, per set, 11 1/4 lbs.

88B1478—Price, per set for two runners, including rivets \$1.40



New Eclipse Steel Rotary Drop Corn Planter 72c

A Steady Favorite

A most accurate, uniform, and easily operated small hand Corn Planter. Made of Steel. Extensively used. This planter has a rotary drop, similar to that used in a horse planter, thus securing regularity. It is considered one of the best hand corn planters made. It has four discs, No. 1 to drop one grain at a time; No. 2 to drop two grains at a time, etc. Simply and well made. Full set of directions with each planter. Shipping weight, 8 1/2 lbs. 188B1500—Price 72c

Triumph Corn Planter

Reliable and Popular

Thousands Sold Each Year
An excellent Value at the Price

This planter has the slide drop. Very simple in construction. Does not clog. All working parts of iron; blades, of steel. Considered by many to be equal to higher-priced planters. It has always given satisfaction. Shipping weight, 4 1/2 lbs.

188B1504—Price 60c
188B1506—Price, with pumpkin seed attachment 85c

60c

No. 1 Planet Jr. Combined Drill Seeder, Wheel Hoe Cultivator and Plow

\$9.00



One of the most popular members of the Planet Jr. family. As a drill, the seed is sown with great regularity in a straight and narrow line, at a uniform depth and regulated at will by a thumb nut. From a drill it is changed to a cultivator, etc., by the removal of two bolts. Is adjustable to a double wheel hoe, single wheel hoe, furrower, wheel cultivator and wheel garden plow. Furnished with parts complete, including plow, 3 1/2 in. cut, one pair hoes with 6 in. blades, and three steel cultivator teeth. Hopper holds 3 pints. Shipping weight, boxed, 42 lbs. 188B1510—Price, complete \$9.00

No. 25 Planet Jr., Combined Hill and Drill Seeder, Double Wheel Hoe, Cultivator and Plow



One of the excellent all purpose tools of the Planet Jr. line. A combination of the Planet Jr., No. 4 Drill and the No. 12 Double Wheel Hoe. Regularly furnished with all parts shown in illustration. Will drill any thickness or drop in hills, 2, 6, 8, 12 or 24 in. apart. Seed hopper holds 2 1/2 quarts. Flow of seed may be stopped instantly by raising the handles; also by pushing down the index bar. Shipping weight, boxed, 64 lbs. 188B1514—Price, complete \$13.00

Climax Fertilizer and Lime Sower

\$26.65



8 Ft. Broadcast

Screen in Hopper. 9 Bushel Capacity

Will broadcast lime, ashes, plaster, phosphates, nitrate of soda, and other commercial fertilizers. A new, improved machine, adjustable to broadcast from 300 to 3,000 lbs. lime per acre. Feed can be changed instantly while spreading. Has very light draft. Very strongly constructed. As a result, the work is rapidly and well done. All feed openings at the bottom of the body are at all times square, whether large or small feed is being used, thereby doing away with clogging trouble by small, hard particles that will stick in an oblong opening, but readily pass through a square hole.

The Climax Sower has a top that consists of a screen and hopper attached by hinges, and held closely by hooks. The screen insures against trouble from foreign substances entering the machine and mixing with lime or fertilizer. It sows evenly, has a light draft, and the quantity to be sown can be instantly changed without stopping, by simply changing the position of the feed lever at the rear and bottom of the hopper. Length of hopper, 7 ft. 7 inches.

Axle—1 1/4 in. diameter. Cold rolled steel and high carbon steel used exclusively. Wheels are of steel, diameter, 30 in. Stronger and more lasting than wood. Concave tires. Width, 4 inches.

Patented Agitator is constructed by steel tubing and steel bars, formed and bolted together. Bars bolted around and not through the tubing. Furnished complete with tongue for two horses. (Extra charge for doubletrees and neckyoke.) Shipping weight, about 405 lbs.

288B1560—Without Doubletrees and Neckyoke. Price \$26.65
288B1562—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Ohio.

288B1563—Without Doubletrees and Neckyoke. Price \$26.65
288B1564—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1565—Without Doubletrees and Neckyoke. Price \$26.65
288B1566—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1567—Without Doubletrees and Neckyoke. Price \$26.65
288B1568—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1569—Without Doubletrees and Neckyoke. Price \$26.65
288B1570—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1571—Without Doubletrees and Neckyoke. Price \$26.65
288B1572—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1573—Without Doubletrees and Neckyoke. Price \$26.65
288B1574—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1575—Without Doubletrees and Neckyoke. Price \$26.65
288B1576—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1577—Without Doubletrees and Neckyoke. Price \$26.65
288B1578—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1579—Without Doubletrees and Neckyoke. Price \$26.65
288B1580—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1581—Without Doubletrees and Neckyoke. Price \$26.65
288B1582—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1583—Without Doubletrees and Neckyoke. Price \$26.65
288B1584—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1585—Without Doubletrees and Neckyoke. Price \$26.65
288B1586—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1587—Without Doubletrees and Neckyoke. Price \$26.65
288B1588—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1589—Without Doubletrees and Neckyoke. Price \$26.65
288B1590—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1591—Without Doubletrees and Neckyoke. Price \$26.65
288B1592—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1593—Without Doubletrees and Neckyoke. Price \$26.65
288B1594—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1595—Without Doubletrees and Neckyoke. Price \$26.65
288B1596—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1597—Without Doubletrees and Neckyoke. Price \$26.65
288B1598—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1599—Without Doubletrees and Neckyoke. Price \$26.65
288B1600—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1601—Without Doubletrees and Neckyoke. Price \$26.65
288B1602—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1603—Without Doubletrees and Neckyoke. Price \$26.65
288B1604—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1605—Without Doubletrees and Neckyoke. Price \$26.65
288B1606—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1607—Without Doubletrees and Neckyoke. Price \$26.65
288B1608—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1609—Without Doubletrees and Neckyoke. Price \$26.65
288B1610—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1611—Without Doubletrees and Neckyoke. Price \$26.65
288B1612—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1613—Without Doubletrees and Neckyoke. Price \$26.65
288B1614—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1615—Without Doubletrees and Neckyoke. Price \$26.65
288B1616—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1617—Without Doubletrees and Neckyoke. Price \$26.65
288B1618—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1619—Without Doubletrees and Neckyoke. Price \$26.65
288B1620—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1621—Without Doubletrees and Neckyoke. Price \$26.65
288B1622—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1623—Without Doubletrees and Neckyoke. Price \$26.65
288B1624—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1625—Without Doubletrees and Neckyoke. Price \$26.65
288B1626—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1627—Without Doubletrees and Neckyoke. Price \$26.65
288B1628—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1629—Without Doubletrees and Neckyoke. Price \$26.65
288B1630—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1631—Without Doubletrees and Neckyoke. Price \$26.65
288B1632—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1633—Without Doubletrees and Neckyoke. Price \$26.65
288B1634—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1635—Without Doubletrees and Neckyoke. Price \$26.65
288B1636—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1637—Without Doubletrees and Neckyoke. Price \$26.65
288B1638—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1639—Without Doubletrees and Neckyoke. Price \$26.65
288B1640—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1641—Without Doubletrees and Neckyoke. Price \$26.65
288B1642—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1643—Without Doubletrees and Neckyoke. Price \$26.65
288B1644—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1645—Without Doubletrees and Neckyoke. Price \$26.65
288B1646—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1647—Without Doubletrees and Neckyoke. Price \$26.65
288B1648—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1649—Without Doubletrees and Neckyoke. Price \$26.65
288B1650—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1651—Without Doubletrees and Neckyoke. Price \$26.65
288B1652—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1653—Without Doubletrees and Neckyoke. Price \$26.65
288B1654—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1655—Without Doubletrees and Neckyoke. Price \$26.65
288B1656—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1657—Without Doubletrees and Neckyoke. Price \$26.65
288B1658—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1659—Without Doubletrees and Neckyoke. Price \$26.65
288B1660—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1661—Without Doubletrees and Neckyoke. Price \$26.65
288B1662—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1663—Without Doubletrees and Neckyoke. Price \$26.65
288B1664—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1665—Without Doubletrees and Neckyoke. Price \$26.65
288B1666—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Shipped from factory in Indiana.

288B1667—Without Doubletrees and Neckyoke. Price \$26.65
288B1668—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., \$2.35
18 lbs.

Land Rollers—Road Machinery—Scrapers—Drags

Climax Corn Roller

Heavy Steel End Hangers with One-Piece Oil-Soaked Maple Boxes.



A comparatively new and practical combination tool that is fast becoming popular in all corn sections. Can be used as a regular land roller, length, 7 ft., or by removing the small section, will readily straddle a row of corn with 36 in. of rolling surface between each of the corn rows. The drums can be spread apart any desired width up to 12 in. A 3-section roller has two sections three feet wide, and one section one foot wide. It is customary to use the small section on one end, so that to transfer it for corn, it can readily be removed and the large sections spread apart. Special collars to hold drums apart for cornrowing regularly furnished. Heavy angle steel frame. Weight boxes easily made by using planks. Tongue made of oak and strongly braced with hitch pin underneath. Made in one size only.

288B1600—Steel Head Corn Roller.
7 ft. 3 section. Ship. wt., 540 lbs.
Price \$18.50

Shipped from factory in Ohio.

Climax Soil Preparer

\$28.00



Prepares the soil for retaining moisture. Insures quick germination, prevents blowing of seed, washing, rust and smut.

The Climax Soil Preparer will give you larger crops, make you more money, and can be made to pay for itself several times in one season, by saving seed from blowing; holding moisture; insuring quick germination of seed; saving delays in cultivating after rains; increasing your yield; giving your crops the full benefit of rainfall, and assisting you to obtain the full benefits of your man's efforts.

Frame is constructed of angle steel. All bolts provided with lock washers for preventing nuts from becoming loose. Steel shaft, diameter 1 1/4 inches. Packer wheels and Mulcher wheels of cast iron, diameter 17 inches; width, 3 inches. The Mulcher wheels work loosely between the packer wheels, and, due to the large number of spurs, some of which are always in contact with ground, causes the Mulchers to travel at a higher rate of speed, thus preventing dirt from packing between wheels.

No doubletrees, singletrees, or neck-yoke furnished. Tongue is furnished.

288B1670—Soil Preparer, length 7 feet; shipping weight, 1,000 lbs.
Price \$28.00

288B1672—Soil Preparer, length 8 feet; shipping weight, 1,100 lbs.
Price \$29.90

Shipped from factory in Western Illinois.

The kind so largely used in the west. Will do any kind of work usually done by drag and wheel scrapers. Unsurpassed for making irrigation ditches, levelling land, building levees.

BUILT TO WEAR and stand the hardest kind of usage. High carbon steel body, wrought iron rods and fittings, hardwood drawbar, crossbrace and handle. We believe equal to any similar scraper made, regardless of price. It has greater carrying capacity than other scrapers of this style, and its great strength and durability make it one of the handiest and most economical machines in the scraper line for the farmer or contractor. The load can be carried any distance and deposited in bulk or distributed evenly as desired. Runners can be adjusted to any angle required by the nature of the soil.

Art. No. Price Size No. Width Capacity Shoes Required Ship. Weight

Art. No.	Price	Size No.	Width	Capacity	Shoes Required	Ship. Weight
288B1714	\$12.35	6	44 in.	10 cu. ft.	3	250 lbs.
288B1716	13.75	7	48 in.	12 cu. ft.	3	260 lbs.
288B1718	14.95	8	60 in.	17 cu. ft.	7	310 lbs.

Shipped from factory in Ohio.

HAS ANTI-SKIDDING DISC that can be forced into the ground by means of lever to prevent the machine from skidding towards the ditch when doing heavy work.

A One Man, Two Horse Grader. Built Entirely of Steel and Iron.

288B1740—Climax Reversible Road Grader complete. Shipping weight, 40 lbs. Price \$32.00

288B1742—Extra Cutting Blade. Shipping weight, 40 lbs. Price \$32.00

Shipped from Factory in Ohio.

Steel Clad Stone Boats, \$4.10 to \$5.25

For moving implements, etc., without loading on a wagon.

The bent front part is made of No. 11 sheet steel, and the bottoms of hardwood, thickness 2 inches. The side rails and cross pieces are made of 2-inch hardwood and firmly bolted to the bottoms. Length to front steel plate, 16 inches, being bolted to the bottom.

Size Wt. lbs.

288B1760—No. 1. 28 in. x 6 ft. 125

288B1762—No. 2. 30 in. x 7 ft. 150

288B1764—No. 3. 34 in. x 7 ft. 175

Shipped from Factory in Michigan.

Champion Land Rollers

From one of the largest and best known manufacturers of Standard Land Rollers.

Closed Steel Heads, and Open Cast Heads. 3x3 inch angle steel frame, 1 1/4 in. steel axles.

Our No. 1 Steel Head Rollers are exceptionally strong and practically unbreakable. Hangers are of heavy steel, stiff and rigid. Heads and hangers are one-piece, oil-soaked and easy to renew. Diameter of drums, 24 in.; 12 gauge rims; 1 1/4 in. steel axle.

\$14.60



Shipped from factory in Ohio.

No. 1 Rollers | Prices | Rolls | Sections | Ship. Wts.

288B1604 \$14.60 6 ft. 2 475 lbs.

288B1606 16.50 6 ft. 3 500 lbs.

288B1608 17.40 7 ft. 3 550 lbs.

288B1610 18.50 8 ft. 3 600 lbs.

288B1612 19.95 8 ft. 4 630 lbs.

Shipped from factory in Ohio.

No. 2 Cast open head Rollers are full weight, with heads made of rigid cast iron. Heavy cast iron hangers equipped with self-oiling boxes. 1 1/4 in. steel axle.

Oak tongues on both rollers made of oak with hitch pins underneath and heavily ironed to frames. No double trees or neck yoke furnished.

Prices on No. 2 Cast Head Rollers.

No. 2 Rollers | Prices | Rolls | Sections | Ship. Wts.

288B1614 \$14.90 6 ft. 2 500 lbs.

288B1616 16.75 6 ft. 3 550 lbs.

288B1618 17.75 7 ft. 3 600 lbs.

288B1620 18.90 8 ft. 3 650 lbs.

288B1622 20.40 8 ft. 4 675 lbs.

Shipped from factory in Ohio.

\$14.90



Shipped from factory in Ohio.

Climax Disc Pulverizer and Packer

18-In. Deep V Discs. Oil-Soaked Maple Boxes 4x4x5 in. Heavy Angle Steel Frame, 1 1/4 in. Steel Axle. 6 to 12 Foot Sizes.

The value of the surface packed is appreciated by the Western farmers, and is fast becoming popular in Eastern and

Central States. Our Climax is the kind commonly used. It is full weight, standard in shape and design. The sharp, deep V discs are made of cast iron, diameter, 18 inches, and turn independently on heavy 1 1/4 in. high carbon steel axle. Hangers are equipped with oil soaked maple bearings. Heavy angles used in frame construction form a weight box, by which any kind of weights may be used by laying a plank inside. Tongue is made of oak with extra heavy braces. Made in six sizes. Can also furnish with shallow V discs at same prices, if so specified in order.

\$21.25
to
\$39.75



Shipped from factory in Ohio.

Climax Soil Pulverizer

Straight Teeth. 24 Inch Wheels. Removable Self-Oiling Boxes. 8 to 22 Sections.

\$21.00
to
\$49.75



One of the most effective and popular Combination Roller and Soil Pulverizers. Besides crushing the lumps it leaves practically a smooth surface. Wheels are made of heavy cast iron, diameter, 24 in. and each wheel turns independently. Has special hitch in center, making the draft directly on the axle, also forming the center bearing and preventing axle springing. Seat adjustable to take weight from horses' necks. Frame of heavy, 2 1/2 x 2 1/2 in. steel angles, forming weight boxes. Oak tongue heavily ironed. Center pins through axle at end hangers to prevent springing.

Article No. | Price | Length | No. of discs | Ship. Weight

288B1630 \$21.25 6 ft. 18 7.55 lbs.

288B1632 23.95 7 ft. 21 8.80 lbs.

288B1634 26.50 8 ft. 24 9.90 lbs.

288B1636 29.90 9 ft. 27 11.00 lbs.

288B1638 33.90 10 ft. 30 12.10 lbs.

288B1640 39.75 12 ft. 36 14.50 lbs.

Shipped from factory in Ohio.

Tandem Disc Pulverizers

Shipped from factory in Ohio. New for 1916. The latest idea in soil preparation. Have all the good features of the single gang style, but also roll and pack the surface with the rear gang.

Construction the same as the single gang style above but have 15 inch diameter front discs and 12 inch rear discs. Rear Gang is easily detachable, allowing use of front gang as a pulverizer only.

Made in 7 and 8 foot sizes only.

288B1624—7 ft. Cut. Ship. wt., 1,000 lbs. \$33.75

288B1626—8 ft. Cut. Ship. wt., 1,000 lbs. \$35.90

Shipped from factory in Ohio.

Article No. | Price | Length ft. | No. of Sects. | Ship. Wt. lbs.

288B1650 \$21.00 6 8 755

288B1652 23.25 7 10 900

288B1654 26.75 8 12 1040

288B1656 32.00 10 14 1315

288B1658 38.65 12 18 1610

288B1660 49.75 15 22 1900

Shipped from factory in Ohio.

Shipped from factory in Ohio.

No. 2 Rollers | Prices | Rolls | Sections | Ship. Wts.

288B1614 \$14.90 6 ft. 2 500 lbs.

288B1616 16.75 6 ft. 3 550 lbs.

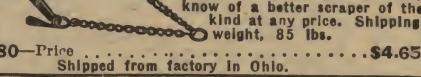
288B1618 17.75 7 ft. 3 600 lbs.

288B1620 18.90 8 ft. 3 650 lbs.

288B1622 20.40 8 ft. 4 675 lbs.

Shipped from factory in Ohio.

\$14.65

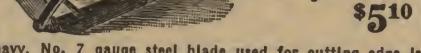


Shipped from factory in Ohio.

No. 7 Gauge Steel Blade

For Making and Leveling Roads, Cutting or Cleaning Ditches, etc.

\$4.65

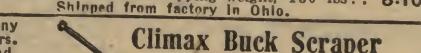


Shipped from factory in Ohio.

No. 7 Gauge Steel Blade

For Making and Leveling Roads, Cutting or Cleaning Ditches, etc.

\$4.65



Shipped from factory in Ohio.

Steel Shoes On Runners

Fresno Style—3 Sizes

\$12.35 to \$14.95

Shipped from factory in Ohio.

<p

New Climax Potato Machinery

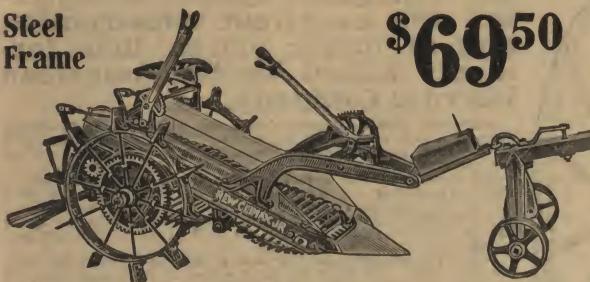
Diggers, Planters,
Sorters, Cutters

Climax Junior Digger

20-Inch Elevator, Steel Construction, Adjustable Shaker Screen

Steel Frame

\$69.50



The Climax Jr. can be handled by two horses and is intended to meet the demand of small farms. It does the work equally well as larger diggers, but is built higher and not intended to stand the strain of four horses.

Main frame has channel steel sides which make it far superior to the cast frame diggers, being easier to handle, stronger and more durable.

The elevator chain is made of $\frac{3}{8}$ -in. crucible spring steel, each length being round and zigzagged, and each alternate being high and low. This method, together with the agitation produced by the agitator sprockets, keeps the elevator chain in a constant wavy motion, and loosens the soil from the potatoes before they reach the back of the elevator.

Has lever at the right of operator for raising and lowering shaker screen that can be adjusted while machine is in operation. No need for the operator to change his position or to get off the machine.

We do not recommend the Climax Jr. for use with three or four horses. Where there is large acreage and it is necessary to use four horses we especially recommend the purchase of the Climax Senior digger, as it is built to stand the strain.

Width of elevator inside, 20 inches. Fork rower in the rear receives adjustment from both right and left main gears by means of rollers agitating against special shaped roller blocks. The rower or screen receives 16 jars or vibrations per revolution of the main wheel, and readily discharges potatoes, vines, etc., carried over the elevator.

Pivot Point is made of high carbon, soft center steel, thickness $\frac{5}{16}$ -inch, beveled to avoid going too deep.

Shaker Fork has spring steel tines, diameter $\frac{1}{16}$ -inch, and fastened to frame by threaded ends and nuts.

Furnished with lead tongue truck. Adjusting levers convenient to operator. 30-inch drive wheels with malleable traction arms. Shipping weight, 625 lbs.

288B1800—Climax Junior 2-Horse Digger. Price \$69.50

Shipped from factory near Chicago.

We ship our new Climax diggers to you with the understanding that they will do as good work under similar conditions as any other digger of equal size. The Climax Jr. is fully equal to any other two horse digger, and for a four horse digger, the Climax Sr., we believe, has no superior.

Test our Climax Junior alongside any other two horse digger. Try our Climax Senior beside any four horse digger made. We are confident that they will operate to your entire satisfaction.

Lever Adjustment, Light Draft, Soft Center Steel Plow, Crucible Spring Steel Endless Carrier Chain

Steel Construction is one of the special features of our Climax Sr. It is far superior to the cast iron frame diggers that are clumsy and more difficult to handle. On the cast iron frame diggers the breakage of one piece means the renewal of practically the entire side frame, with big expense. The frame on the Climax Senior is made of channel steel, almost an insurance against breakage. As the front that connects the draft arms is of malleable iron, the danger of breakage or expense in procuring new parts is reduced to a minimum.

Lever Adjustment with special foot leverage permits the operator to easily control the machine.

Wheels, diameter 30 inches, are of steel with $\frac{1}{2}$ -inch cold rolled steel axles. The main beams or draft arms are malleable iron, securely fastened to heavy 5-in. steel channels in the frame, with the draft equally divided. Gears and pinions are interchangeable so that after becoming worn on one side they can be changed to the opposite side and are as good as new gears.

Endless Chain of $\frac{1}{2}$ -inch round crucible spring steel, each alternate link being high and low, insuring perfect operation while in action. It passes over the special agitator sprocket and is in constant motion, causing the loosening of the soil before potatoes reach the back of the machine. Links are properly gauged to avoid the loss of small sized potatoes.

Agitators, in two complete sets, cause a constant wavy motion to the chains, practically insuring screening in the heaviest and hardest soil. The set of smaller agitators is furnished for use in light soil, reducing the amount of agitation. The change from the small to large agitators is at the option of the operator and depends upon the condition of the soil.

Pivot Point is of the fin or turn-up type, of high carbon soft center steel, $\frac{3}{4}$ -inch thick. Is properly beveled and polished easily.

Vine Carriers are governed by two large coil springs held by an adjustable rod to increase or decrease the tension. The vine carriers separate the vine from the potatoes and reduce the labor of picking materially, as the weeds and vines are thrown to one side and separated from the row of potatoes.

Pickers are arranged so that one or two teeth can be used as desired, one tooth being detachable.

Shaker Fork has tines of high carbon spring steel, $\frac{1}{16}$ -inch at base, and securely fastened to malleable side frame.

All power driving parts are key seated, avoiding weakness, lost current, and insureng less breakage. Bearings, in all, furnished with compression grease cups. 2-Horse Eveners regularly furnished.

Truck regularly furnished guides the machine and on level ground answers all requirements. For uneven or hilly ground a pivot axle truck that adjusts itself to the angle of draft or the grade of the ground can be furnished at extra charge in place of the regular truck.

Width of digger inside elevator, 22 inches. Shipping weight, 975 lbs.

288B1805—Climax Sr. Four-Horse Digger. Price \$82.00

\$82.00

Channel Steel Frame



soil. The set of smaller agitators is furnished for use in light soil, reducing the amount of agitation. The change from the small to large agitators is at the option of the operator and depends upon the condition of the soil.

Pivot Point is of the fin or turn-up type, of high carbon soft center steel, $\frac{3}{4}$ -inch thick. Is properly beveled and polished easily.

Vine Carriers are governed by two large coil springs held by an adjustable rod to increase or decrease the tension. The vine carriers separate the vine from the potatoes and reduce the labor of picking materially, as the weeds and vines are thrown to one side and separated from the row of potatoes.

Pickers are arranged so that one or two teeth can be used as desired, one tooth being detachable.

Shaker Fork has tines of high carbon spring steel, $\frac{1}{16}$ -inch at base, and securely fastened to malleable side frame.

All power driving parts are key seated, avoiding weakness, lost current, and insureng less breakage. Bearings, in all, furnished with compression grease cups. 2-Horse Eveners regularly furnished.

Truck regularly furnished guides the machine and on level ground answers all requirements. For uneven or hilly ground a pivot axle truck that adjusts itself to the angle of draft or the grade of the ground can be furnished at extra charge in place of the regular truck.

Width of digger inside elevator, 22 inches. Shipping weight, 975 lbs.

288B1805—Climax Sr. Four-Horse Digger. Price \$82.00

Shipped from factory near Chicago.

Climax Self-Feed Potato Planter

With or without Fertilizer. Will plant 5 to 7 acres per day. Self Feed. Disc Covers. Drops from 10 to 20 in.

\$37.50

Without Fertilizer



Adjustable Cups on Self-Feed elevator to Suit Size of Seed

Doubletree or neck yoke not furnished. See other pages.

288B1815—Climax Potato Planter. Price \$37.50

A fertilizer attachment with a funnel-shaped hopper, having a capacity of from 100 to 125 lbs. of fertilizer and dis-

will permit drops of 10, 12, 14, 16, 18, or 20 inches apart. The sprockets relieve the necessity of adding links or taking links off the elevator chain when a change of distance is desired.

Disc covers have concave discs, diameter 14 inches, and attached to heavy malleable disc arms, fastened to the main frame by means of double ratchets. Disc covers can be adjusted to any angle desired easily and quickly. A powerful tension spring holds discs in ground at all times.

A V-shaped furrow opener made of hardened steel is also supplied with a tension spring, thus insuring proper opening of the furrow to prevent seed from rolling or jumping.

Has marker that is adjustable to mark rows from 22 to 40 inches, and readily changed from one side of the machine to the other by hand lever convenient to the operator.

Climax Planters are constructed largely of steel and malleable iron, hopper being made of heavy sheet steel with capacity of $2\frac{1}{2}$ bushels. A slope is in bottom of hopper to keep the automatic feeder supplied. Wheels are steel, diameter 30 inches; shipping weight, 400 lbs., tributing through spouts on each side of the planter shoe, can be furnished when so ordered. Shipping weight, 30 lbs.

288B1820—Fertilizer attachment on potato planter extra. Price \$6.95

Shipped from factory near Chicago.

Schofield Combination Potato Planter and Digger

Combined Planter and Digger

\$23.75

Discs Adjustable for Hillside Work

\$18.55

Digger Only

LEVER ADJUSTMENT

Extra Strong Frame

THE LATEST MODEL IMPROVED FOR 1915

IN SATISFACTORY USE IN ALL POTATO SECTIONS AND IN ALL KINDS OF SOIL. A BIG TIME AND LABOR SAVER. HEAVY CHANNEL STEEL FRAME, PRESSED STEEL SEAT.

A Combination Potato Planter and Digger that will do as good work in all kinds and conditions of ground as any other planter we know of, and at a lower price than any other combined tool of this kind. As a planter it marks, drops and covers all at the same time, and will plant, as desired, 13, 16 or 19 inches apart in a row by means of different sized sprocket wheels which are furnished with each planter. It will plant and depth desired up to 6 inches, by raising or lowering the lever. The dropping device is done automatically by the machine; but a boy occupying the seat on the rear of the machine feeds the dropping device by hand, insuring more accurate dropping than can be done by the so-called self-drop planters. Covering discs are set to gather all the dirt thrown out by furrow opener, and can be adjusted to gather more or less dirt, or run deep or shallow. Wheels can be adjusted to suit different widths of rows. The other cut shows the tool arranged for digging, the digger attachment being mounted in the same manner. Can be set to run any desired depth and will not run too deep or too shallow. In digging, the operator rides and is in position to provide perfect control over both team and digger. Separator bars allow the soil to pass through freely, raising the potatoes to the surface and leaving them in the best position to be picked. Hardwood tongue and hopper. Doubletree or neck yoke not furnished. Shipping weight of the machine, complete, 255 lbs. Directions with each.

288B1835—Price Combined Planter and Digger. Price \$23.75

288B1837—Price of Planter without Digger. Shipping weight, 210 lbs. 19.85

288B1839—Price of the Digger only, without planter. Shipping weight, 205 lbs. 18.55

Shipped from warehouse near Chicago.

New Climax Shaker Potato Diggers

Our New Climax Shaker Diggers are excellent, low priced tools that are easily handled, and will give good service. Wrought steel beams, solid steel shovel.

The shaker at rear is flexible and keeps a continuous up and down motion while the digger is in operation. This motion screens the small particles of dirt through and holds up the potatoes to view. A paddle wheel under shaker bars agitates shaker. Works freely and satisfactorily, except when too heavily loaded by wet ground. Length of steel digger rods, 20 in., with hinge attachment, allowing free motion. The blade is made of crucible steel and will scour in any soil; handles have adjustable braces.

The No. 2 Double Beam Digger is especially adapted for sweet potatoes.

The gauge wheel truck makes easier to guide and less work for the operator and horses. Depth regulated on the gauge wheel attachment by adjusting side standards up or down. It straddles the hill and keeps the digger at uniform depth.

288B1846—No. 1 Single Beam Digger, complete with gauge wheel attachment. Shipping weight, 150 lbs. \$10.40

288B1848—No. 2 Double Beam Sweet Potato Digger. Shipping weight, 160 lbs. Price \$10.75

Shipped from warehouse near Chicago.

\$10.75

No. 2 Double Beam Style

New Steel Potato Planter

Saves much hard work. 94c Plants quickly and uniformly. Adjustable Handle.

This Planter is made entirely of steel with the exception of the hand hold which is wood. The beak is automatic or self-locking. The handle is adjustable and can be raised or lowered to suit the height of the operator. Diameter of tube, 3 in. It always deposits the potato at the proper depth and covers it uniformly. The beak is sharp and enters the ground easily.

A well made planter in every respect. Shipping weight, 4% lbs.

188B1855—Price 94c

\$4.70

Give it a trial. It will surprise you in the quality of its work.

Success Potato Digger

Extra Strong Beam. Adjustable Gauge Wheel. Six Separating Rods

Whether your potato patch is large or small, the Success will be found to be one of the handiest and least expensive tools. The low price and the saving of hard labor in digging by hand makes it desirable, no matter how small the potato field. EXTRA WELL MADE, STRONG AND DURABLE.

Beam is of forged steel, extra strong and with high arch, avoiding any danger of clogging with weeds or potato vines. The shape of the point avoids a tendency to cut the potatoes and it throws them out of the ground in good shape for picking. The handles are adjustable to height for deep or shallow planting. Guides easily. Gauge wheel in rear can be adjusted to suit the depth. The blade is of hardened crucible steel, ground and polished; the separating rods are of wrought steel, reinforced in the center; adjustable clevis. Retails at \$6.00 to \$7.00. Shipping weight, 85 lbs.

188B1860—Price at Chicago warehouse \$4.70

Detroit-American Riding Cultivators

Formerly manufactured by the American Harrow Company, of Detroit. The well-known Detroit American Pivot Axle Cultivators are known in practically every state. They are adapted to all kinds of soil and cultivating conditions.

THE CONSTRUCTION is practically entirely of steel and malleable iron, the steel construction reducing the weight and increasing the strength.

THE PIVOT AXLE DEVICE is very simple. No complicated parts to get out of order. It is made with a small pivot base, which reduces the friction and makes the movement of the pivot shaft or axle very easy. The driver may give less attention to his team, as the automatic guides the machine through the pivoting or turning of the axles and wheels around any obstruction or irregularity in the row. Pressure of the feet on the short foot levers carries the wheels and gangs to the right or left, or brings them back in a straight line, as desired.

The pivot axle feature has great advantages in working crooked rows or turning around at the end of the row. It turns in a smaller space than rigid cultivators and makes it possible to cultivate closer to the fence. Also adapted for hillside work, as turning the wheels a little towards the hill the machine will hold closely in line. The frame may be locked rigid when desired.

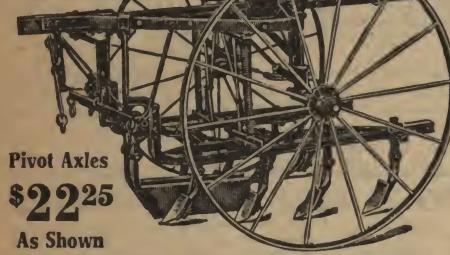
THE FRAME is triangular shape, made of $2\frac{1}{2}$ in. steel. Nothing in the center of the frame to obstruct the view of the row.

THE LEVERS are of high carbon steel, $1\frac{1}{2}\times\frac{1}{2}$ in., and will not break. Lifetime springs attached to the gangs gives a perfect balance and makes it easy to raise them or lower them into the ground.

The forward shovels are well in front of the axle, balancing the machine and making it easier to watch the row.

With 8 Shovel Pin Break Gangs

Note the gangs are forward, working in view of operator, and balancing frame



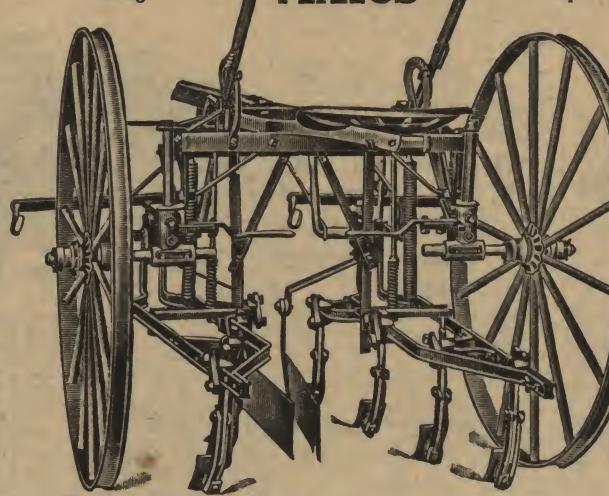
Pivot Axles
\$22.25

As Shown

BALANCE FRAME—
Pin Break, Spring
Trip or Spring Tooth
Gang

Pivot
Axles

For any Width
of Row from
30 inches
up



Spring Tooth Cultivator (Shown to the right)

Very popular in the Eastern States. Desirable in stony or stony ground, on account of the elasticity of the long spring teeth, permitting them to go over obstructions without damage to the teeth or machine. Illustration shows cultivator with two 4-shovel gangs and center section of three spring teeth, changing it into a spring tooth harrow. The center section is easily attached or removed, and when removed makes an excellent 8-shovel pivot axle spring tooth cultivator.

Wheels are steel, diameter, 48 in., with 2 in. channel steel tires. The width from outside to outside of wheels is adjustable and ranges from 45 to 57 in. The tongue is adjustable to height of team. The hitch and singletrees are of steel, without bolts or rivets, consequently nothing to wear out or break. Neck yoke and corn shields regularly furnished with each cultivator. The excellent balance on the machine will not permit the pole to fly up when sections are raised, and there is no neck weight on the horses. Seat is adjustable for height and distance from the foot levers. Average shipping weight of cultivator with pin break or spring tooth gangs, 410 lbs.; with spring trip gangs, 435 lbs.

For a more complete description of our D-A Cultivators, Disc Harrows, Spreaders, etc., write for our Detroit-American Implement Catalogue.

288B1900—Pivot Axle Cultivator, with 4-shovel pin break gangs.	Price.	\$20.50
288B1902—Pivot Axle Cultivator, with 4-shovel spring trip gangs.	Price.	22.40
288B1904—Pivot Axle Cultivator, with 6-shovel pin break gangs.	Price.	21.75
288B1906—Pivot Axle Cultivator, with 6-shovel spring trip gangs.	Price.	24.25
288B1908—Pivot Axle Cultivator, with 8-shovel pin break gangs.	Price.	22.25
288B1910—Pivot Axle Cultivator, with 8-shovel spring trip gangs.	Price.	25.75
288B1912—Pivot Axle Cultivator, complete with 8-shovel spring tooth gangs and extra three tooth center attachment (as shown to the right)	Price.	24.50

Shipped from warehouse near Chicago.

Detroit-American Spring Tooth Cultivator

Made for Spring Teeth only. Not Furnished with Shovel Gangs

Exceptionally well adapted for level cultivation because there are five teeth on each one of the sections, with points set just tight enough to work all the surface. The teeth are positively controlled at all times by lock levers, because the gangs are movable on balls. Steel frame. Extra strong and durable. Nothing in the center of the frame to obstruct the view of the row.

The spring teeth work satisfactorily in light or heavy soils. Levers are high grade carbon steel, $4\frac{1}{2}$ inch steel wheels with 2-inch channel steel tires and dust-proof hubs. Pressed steel, adjustable seat. Oak singletrees and neck yoke and 8 ft. tongue, adjustable in height to suit team and weight of operator, giving perfect balance, and preventing neck weight. Gangs connected to front arch by malleable castings, allowing easy swing up and down or to the side. No tipping or twisting so that shovels run deeper on one side than on the other. Front coupling adjustable to any position of the front arch. Gangs may be spread by simple bolt and nut attachment, and easily done in the field with wrench which is furnished. Gangs moved from side to side by foot pressure in the stirrups. Each stirrup has upper and lower rollers, allowing easy gang guiding, thereby making it one of the "quickest dodge".

Corn plows. Sockets holding the corn arch are adjustable so that gangs can be set close together or far apart. Adjustable tension coil spring with lever connection permits easy lifting of gangs. Made in two widths, narrow or Wide Model. The Narrow Model will not work good in rows less than 3 ft. apart, but does excellent work on rows from 3 ft. to 3 ft. 10 in. apart.

The Wide Model measures $64\frac{1}{2}$ in. across tires with wheels set close to work rows $3\frac{1}{4}$ ft. or more apart. With wheels extended to 84 in. across tires, will handle 3 rows of beans or other crops planted 28 in. to 30 in. apart, each gang working each full side of center row.

288B1920—Detroit-American 10-Tooth, Spring Tooth Cultivator. For 3 ft. to 3 ft. 10 in. rows. \$21.60

288B1922—Detroit-American 10-Tooth, Spring Tooth Cultivator. For 3 $\frac{1}{2}$ ft. rows and up. \$21.75

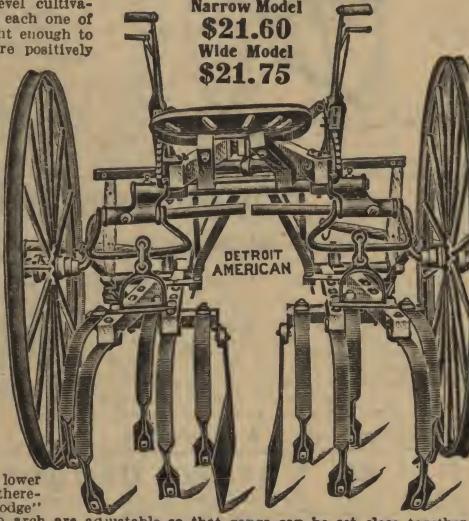
288B1924—5-Tooth center attachment to convert cultivator into 15-Tooth Harrow. Weight, 40 lbs. Price, extra

Narrow Model

\$21.60

Wide Model

\$21.75



Detroit-American Combined Harrow, Seeder and Cultivator

A Combination 15-tooth Harrow, Seeder and Cultivator. Figure it out yourself. What would you pay for a good 15-Spring Tooth Harrow, a Broadcast Grain Seeder, and a 10-Tooth Cultivator? Then notice the price we ask for the machine complete with these attachments. A big saving to you.

The Force Feed Broadcast Seeder Attachment is fastened on either the narrow or wide model Cultivator. Is fastened on the frame and does not obstruct the view from the seat. Is low down, so that the seed is discharged only a short distance from the ground. The indicator, showing quantity to be sown, and the lever regulating it are on the side next to the operator and can be set instantly for any desired amount. The feed mechanism is propelled by sprocket and chain driven from the left-hand wheel. The seed is discharged into four short spouts, each of which has at the bottom a convex-shaped plate, on which the seed falls and is thus scattered evenly over the surface of the ground. The seed is then covered just right by the spring teeth, the depth of which is determined by position of levers. Adapted for sowing wheat, oats, rye, barley, flax, peas, corn, etc., but not suitable for sowing grass seed.

To use as Cultivator, simply remove the center triple-tooth attachment, thereby converting the machine into a splendid Spring-Tooth Cultivator with Broadcast Seeder Attachment.

Furnished complete with tongue, singletrees and neck yoke, same as furnished with Spring-Tooth Cultivators.

For description of Narrow and Wide Models and of operating parts, see description of Spring-Tooth Cultivators.

Narrow Model
Complete, \$29.75

Wide Model
Complete, \$29.95



288B1934—Detroit-American Harrow, Seeder and Cultivator, Complete, Narrow Model. Ship, wt., 560 lbs. \$29.75

288B1936—Detroit-American Harrow, Seeder and Cultivator, Complete, Wide Model. Ship, wt., 575 lbs. \$29.95

Shipped from Warehouse near Chicago

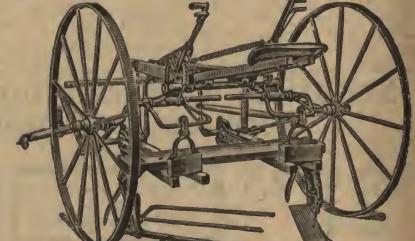
Detroit-American Bean Harvester Does the Work of Several Men

Getting the bean crop harvested quickly, with the least possible expense and labor is of the greatest importance. Pulling beans by hand is a very slow, hard job, and very expensive; the beans must be harvested just when time is valuable and help scarce. With our Bean Harvester the problem is solved at a small cost.

By means of the rod on the patent flexible rolling dividers, the vines are gathered and brought together in a windrow at the rear, free from roots and dirt. The adjustment is simple, and may be easily operated from the seat, as to depth by means of the levers. Stone guards in front of the drive wheels.

For the convenience of those now possessing a Detroit-American Spring Tooth Cultivator, who may not desire to purchase a complete Bean Harvester, we quote the attachment separately. It cannot be used with pivot axle cultivators.

The Bean Harvester Attachment is easily and quickly put in place of the spring-tooth gangs.



288B1946—Detroit-American Bean Harvester, complete. Ship, wt., about 465 lbs. \$20.50

288B1948—Bean Harvester Attachment only. Ship, wt., 155 lbs. \$9.50

Shipped from Warehouse near Chicago

Pivot Axle Horse Lift

\$20.50 to \$23.75

New Climax Horse-Lift Riding Cultivators

BALANCE FRAME. ADJUSTABLE GANGS.
LONG DISTANCE, OIL RETAINING HUBS.

Horse-lift allows the horse to do the work of raising and lowering gangs, and balancing cultivator.

Not necessary for operator to raise one gang at a time, and then balance cultivator at the end of every row. Thumb latch releases balancing lever, and lets the horses do the work. One of the simplest, handiest and easiest operated balance frame Riding Cultivators.

Our New Climax for 1915 is a leader of Riding Cultivators. It has all the desirable features of the most modern cultivators, including horse-lift, balance frame, adjustable wheels, ease of operation, excellent construction and material, and at prices considerably less than the leading similar cultivators are sold for at retail.

We know that it embodies the most desirable features for cultivating.

Horse-lift feature, one of the most important in modern Riding Cultivators, is especially attractive to the operator. It eliminates raising the gangs one at a time, and balancing cultivator at the end of every row. The horses do all the work of raising and lowering the gangs, and balancing the cultivator.

This is accomplished by releasing the thumb latch of the balancing lever, placing the work directly on the horses. The releasing lever saves three operations on other cultivators.

Putting the balancing lever back into place and starting another row automatically balances the cultivator and places gangs in action again.

In addition to the balancing lever, a lever is furnished for each gang, to regulate depth of plowing. Strong, adjustable coil springs on each gang permit easy handling by the operator when in the ground.

Wheels are adjustable in width from 44 to 52 in. Diameter of steel wheels, 42 in., with 2 in. oval tires, furnished with long distance oil-retaining hubs.

New Style
Spring
Trips



Showing 8-Shovel Spring Trip Model with Curved Beams

SOFT CENTER SHOVELS. IMPROVED FOR 1915. STEEL FRAMES, AXLES AND BEAMS.

Can be furnished with either curved or straight beams, as desired. Larger illustration shows curved beams with improved 1915 compound lever spring trip gangs. Smaller illustration shows straight beams with pin break gangs. We especially recommend our spring trip gangs, as our new style forward coil spring-governed shovels, with compound lever action, are, we believe, unsurpassed. Shovels are made of an excellent grade of soft center steel, and will scour in any soil. Each cultivator furnished complete with whiffletree, neck yoke, shields and handles to use as a walking cultivator, when desired. Average shipping weight, 450 lbs.

Prices on 1916 New Climax Balance Frame, Horse-Lift Riding Cultivator

288B1958—No. 10. Complete with four 5-in. pin break shovels, curved beams. \$20.50

288B1960—No. 11. Complete with six 3 $\frac{1}{2}$ -in. pin break shovels, curved beams. \$21.50

288B1962—No. 12. Complete with eight 3-in. pin break shovels, curved beams. \$21.45

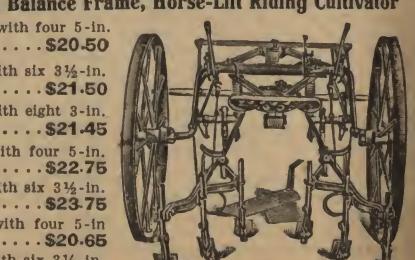
288B1964—No. 13. Complete with four 5-in. spring trip shovels, curved beams. \$22.75

288B1966—No. 14. Complete with six 3 $\frac{1}{2}$ -in. spring trip shovels, curved beams. \$23.75

288B1968—No. 15. Complete with four 5-in. pin break shovels, straight beams. \$20.65

288B1970—No. 16. Complete with six 3 $\frac{1}{2}$ -in. pin break shovels, straight beams. \$21.65

Prices on 1916 New Climax Balance Frame, Horse-Lift Riding Cultivator



Showing Straight Beams, Pin Break Gangs

Climax Combination Sprayer

\$3.60

Fits any pail or bucket and can be attached to barrel. Extra large air chamber gives almost continuous spray.



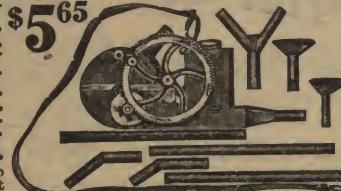
Very handy, inexpensive, general purpose sprayer. Lever handle makes easy operation. For whitewashing, fine or coarse spraying. Will throw a solid stream 40 feet.

A good, medium, all around pump. A little lighter than the regular barrel pump, but just as effective. More powerful and more durable than a regular bucket pump. Its wearing qualities are of the best, as it is constructed almost entirely of brass. The lever handle works much easier than the plunger handle on bucket pumps. Adapted for the various kinds of tree, bush, shrubbery or garden spraying, washing windows, whitewashing poultry houses etc. Regularly furnished with removable malleable iron stirrup for use with bucket. Also connecting plate to use on barrel, 3 ft. of $\frac{1}{2}$ in. hose and a combination brass nozzle for fine mist spraying, coarse spraying or stream. Has a barrel plate to fit ordinary barrels. Directions for operating. Shipping wt. 11 lbs.

188B2106—Price, complete \$3.60
188B2176—Bordeaux Nozzle, for whitewashing. Wt. 4 oz. \$4.80

Geared Dry Powder Duster

Distributes any dry Powder \$5.65



Will cover two rows at a time as fast as the operator can walk. Can readily be adjusted for different width rows. The reservoir holds over 1 quart of powder or 4 pounds of Paris Green. The duster is provided with an agitator producing a constant flow of powder, which is blown out by the fan; also a gauge for regulating the amount of powder to be used. Suitable for dusting trees when tubes are connected. The side arms and gear are made of cast iron and the gauge of brass. Balance of the machine is made of heavy tin, nicely painted. Regularly furnished complete with shoulder strap, three tubes, two nozzles, one Y and two elbows. Instructions with each machine. Net weight, 6 lbs. Shipping weight, about 10 lbs. 188B2108—Geared Dry Powder Duster. Price.....\$5.65

Climax Hand Sprayer

22c

Effective and Satisfactory Little Sprayer. Especially Adapted for Spraying Flowers, Plants and Bushes. Extremely valuable as a disinfectant in the house. Reservoir holds 1 $\frac{1}{2}$ pints. Has screw cap for filling. Its fine, mist-like spray covers a large radius. Made of heavy tin. Ship. wt. 20 oz.

88B2120—Climax Sprayer. Price22c

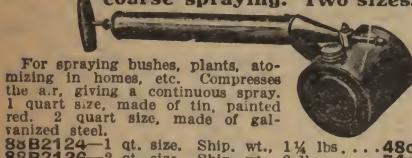
Climax Glass Jar Sprayer

36c

The reservoir is a regular 1 quart Mason glass jar, not affected by poisons. Screw cap for filling. Ingredients are in view at all times, so that the operator can see just how they work. Has long air chamber with expansion plunger. Suitable for spraying plants, bushes and young trees. Directions with each. Weight, 1 $\frac{1}{2}$ lbs. 88B2122—Price, each36c

Peerless Compressed Air Hand Sprayer

All parts easily removable for cleaning and adjusting. Two nozzles, for fine or coarse spraying. Two sizes.



For spraying bushes, plants, atoms in homes, etc. Compresses the air, giving a continuous spray. 1 quart size, made of tin, painted red. 2 quart size, made of galvanized steel.

88B2124—1 qt. size. Ship. wt. 1 $\frac{1}{2}$ lbs.48c

88B2126—2 qt. size. Ship. wt. 2 lbs.74c

Climax Lever Nozzle

No Liquids Wasted

Wears automatically with hand and fingers. Will not clog, as obstructions are agitated and forced out simply by pressing lever. Made of brass, threaded to fit $\frac{1}{4}$ inch pipe. Weight, 12 oz.

88B2164—Climax Lever Nozzle. Price85c

Climax Angle Spray Nozzle

Made of Aluminum

An exceptionally good nozzle for general purpose spraying. Is very light. The angle curve readily enables user to get under leaves or reach difficult places. Has hard rubber whirl and two steel discs, one for coarse and one for fine spraying. Threaded for $\frac{1}{4}$ in. pipe. Weight, 2 oz.

88B2168—Price55c

Armstrong Brass Whitewash Nozzle

Two holes tapering towards each other, so that when whitewash or other fluid is flowing under pressure, one stream against the other, a broad, flat, brush-like spray is produced. If the nozzle becomes clogged, it is simply necessary to turn the lever key half way around, blowing out the sediment instantly. The stem is threaded to receive $\frac{1}{4}$ inch pipe. Wt. 5 oz.

88B2172—Price30c

New Bordeaux Nozzle

Brass. For whitewashing, cold water paint and spraying. Made of flat fan spray. For $\frac{1}{4}$ in. pipe. Wt. 1 oz. 88B2176—Price, each 48c



Easily cleaned by pressing on thumb while spraying.

Two nozzle caps, one for coarse and other for fine spraying. Wt. 1 oz.

88B2180—Price, each 50c

88B2184—Price, each \$1.00

MONTGOMERY WARD & CO. CHICAGO

932

Sprayers

Brass Bucket Spray Pumps

All nozzles are brass and have $\frac{1}{4}$ -inch thread, unless otherwise stated. No matter how little spraying you have to do, the brass bucket sprayer is the one for long and efficient service.

The American Pump is double acting; that is, it works on both the up and down stroke, giving a continuous spray or stream.

The Climax and Peerless Pumps are single acting, giving pressure on the down stroke only, the upper stroke taking the spray into the cylinder. They do not give as continuous a spray or stream as the double acting pump. The Peerless has heavier material, larger cylinders, additional hose, and is equipped with the celebrated Peerless nozzle.

The American and Climax are supplied with fire nozzle to throw a horizontal stream 40 feet. All have solid brass ball valves, and adjustable foot brackets.

Brass Bucket Spray Pumps

All nozzles are brass and have $\frac{1}{4}$ -inch thread, unless otherwise stated.

No matter how little spraying you have to do, the brass bucket sprayer is the one for long and efficient service.

The American Pump is double acting; that is, it works on both the up and down stroke, giving a continuous spray or stream.

The Climax and Peerless Pumps are single acting, giving pressure on the down stroke only, the upper stroke taking the spray into the cylinder. They do not give as continuous a spray or stream as the double acting pump. The Peerless has heavier material, larger cylinders, additional hose, and is equipped with the celebrated Peerless nozzle.

The American and Climax are supplied with fire nozzle to throw a horizontal stream 40 feet. All have solid brass ball valves, and adjustable foot brackets.

Brass Bucket Spray Pumps

All nozzles are brass and have $\frac{1}{4}$ -inch thread, unless otherwise stated.

No matter how little spraying you have to do, the brass bucket sprayer is the one for long and efficient service.

The American Pump is double acting; that is, it works on both the up and down stroke, giving a continuous spray or stream.

The Climax and Peerless Pumps are single acting, giving pressure on the down stroke only, the upper stroke taking the spray into the cylinder. They do not give as continuous a spray or stream as the double acting pump. The Peerless has heavier material, larger cylinders, additional hose, and is equipped with the celebrated Peerless nozzle.

The American and Climax are supplied with fire nozzle to throw a horizontal stream 40 feet. All have solid brass ball valves, and adjustable foot brackets.

Brass Bucket Spray Pumps

All nozzles are brass and have $\frac{1}{4}$ -inch thread, unless otherwise stated.

No matter how little spraying you have to do, the brass bucket sprayer is the one for long and efficient service.

The American Pump is double acting; that is, it works on both the up and down stroke, giving a continuous spray or stream.

The Climax and Peerless Pumps are single acting, giving pressure on the down stroke only, the upper stroke taking the spray into the cylinder. They do not give as continuous a spray or stream as the double acting pump. The Peerless has heavier material, larger cylinders, additional hose, and is equipped with the celebrated Peerless nozzle.

The American and Climax are supplied with fire nozzle to throw a horizontal stream 40 feet. All have solid brass ball valves, and adjustable foot brackets.

Brass Bucket Spray Pumps

All nozzles are brass and have $\frac{1}{4}$ -inch thread, unless otherwise stated.

No matter how little spraying you have to do, the brass bucket sprayer is the one for long and efficient service.

The American Pump is double acting; that is, it works on both the up and down stroke, giving a continuous spray or stream.

The Climax and Peerless Pumps are single acting, giving pressure on the down stroke only, the upper stroke taking the spray into the cylinder. They do not give as continuous a spray or stream as the double acting pump. The Peerless has heavier material, larger cylinders, additional hose, and is equipped with the celebrated Peerless nozzle.

The American and Climax are supplied with fire nozzle to throw a horizontal stream 40 feet. All have solid brass ball valves, and adjustable foot brackets.

Brass Bucket Spray Pumps

All nozzles are brass and have $\frac{1}{4}$ -inch thread, unless otherwise stated.

No matter how little spraying you have to do, the brass bucket sprayer is the one for long and efficient service.

The American Pump is double acting; that is, it works on both the up and down stroke, giving a continuous spray or stream.

The Climax and Peerless Pumps are single acting, giving pressure on the down stroke only, the upper stroke taking the spray into the cylinder. They do not give as continuous a spray or stream as the double acting pump. The Peerless has heavier material, larger cylinders, additional hose, and is equipped with the celebrated Peerless nozzle.

The American and Climax are supplied with fire nozzle to throw a horizontal stream 40 feet. All have solid brass ball valves, and adjustable foot brackets.

Brass Bucket Spray Pumps

All nozzles are brass and have $\frac{1}{4}$ -inch thread, unless otherwise stated.

No matter how little spraying you have to do, the brass bucket sprayer is the one for long and efficient service.

The American Pump is double acting; that is, it works on both the up and down stroke, giving a continuous spray or stream.

The Climax and Peerless Pumps are single acting, giving pressure on the down stroke only, the upper stroke taking the spray into the cylinder. They do not give as continuous a spray or stream as the double acting pump. The Peerless has heavier material, larger cylinders, additional hose, and is equipped with the celebrated Peerless nozzle.

The American and Climax are supplied with fire nozzle to throw a horizontal stream 40 feet. All have solid brass ball valves, and adjustable foot brackets.

Brass Bucket Spray Pumps

All nozzles are brass and have $\frac{1}{4}$ -inch thread, unless otherwise stated.

No matter how little spraying you have to do, the brass bucket sprayer is the one for long and efficient service.

The American Pump is double acting; that is, it works on both the up and down stroke, giving a continuous spray or stream.

The Climax and Peerless Pumps are single acting, giving pressure on the down stroke only, the upper stroke taking the spray into the cylinder. They do not give as continuous a spray or stream as the double acting pump. The Peerless has heavier material, larger cylinders, additional hose, and is equipped with the celebrated Peerless nozzle.

The American and Climax are supplied with fire nozzle to throw a horizontal stream 40 feet. All have solid brass ball valves, and adjustable foot brackets.

Brass Bucket Spray Pumps

All nozzles are brass and have $\frac{1}{4}$ -inch thread, unless otherwise stated.

No matter how little spraying you have to do, the brass bucket sprayer is the one for long and efficient service.

The American Pump is double acting; that is, it works on both the up and down stroke, giving a continuous spray or stream.

The Climax and Peerless Pumps are single acting, giving pressure on the down stroke only, the upper stroke taking the spray into the cylinder. They do not give as continuous a spray or stream as the double acting pump. The Peerless has heavier material, larger cylinders, additional hose, and is equipped with the celebrated Peerless nozzle.

The American and Climax are supplied with fire nozzle to throw a horizontal stream 40 feet. All have solid brass ball valves, and adjustable foot brackets.

Brass Bucket Spray Pumps

All nozzles are brass and have $\frac{1}{4}$ -inch thread, unless otherwise stated.

No matter how little spraying you have to do, the brass bucket sprayer is the one for long and efficient service.

The American Pump is double acting; that is, it works on both the up and down stroke, giving a continuous spray or stream.

The Climax and Peerless Pumps are single acting, giving pressure on the down stroke only, the upper stroke taking the spray into the cylinder. They do not give as continuous a spray or stream as the double acting pump. The Peerless has heavier material, larger cylinders, additional hose, and is equipped with the celebrated Peerless nozzle.

The American and Climax are supplied with fire nozzle to throw a horizontal stream 40 feet. All have solid brass ball valves, and adjustable foot brackets.

Brass Bucket Spray Pumps

All nozzles are brass and have $\frac{1}{4}$ -inch thread, unless otherwise stated.

No matter how little spraying you have to do, the brass bucket sprayer is the one for long and efficient service.

The American Pump is double acting; that is, it works on both the up and down stroke, giving a continuous spray or stream.

The Climax and Peerless Pumps are single acting, giving pressure on the down stroke only, the upper stroke taking the spray into the cylinder. They do not give as continuous a spray or stream as the double acting pump. The Peerless has heavier material, larger cylinders, additional hose, and is equipped with the celebrated Peerless nozzle.

The American and Climax are supplied with fire nozzle to throw a horizontal stream 40 feet. All have solid brass ball valves, and adjustable foot brackets.

Brass Bucket Spray Pumps

All nozzles are brass and have $\frac{1}{4}$ -inch thread, unless otherwise stated.

No matter how little spraying you have to do, the brass bucket sprayer is the one for long and efficient service.

The American Pump is double acting; that is, it works on both the up and down stroke, giving a continuous spray or stream.

The Climax and Peerless Pumps are single acting, giving pressure on the down stroke only, the upper stroke taking the spray into the cylinder. They do not give as continuous a spray or stream as the double acting pump. The Peerless has heavier material, larger cylinders, additional hose, and is equipped with the celebrated Peerless nozzle.

The American and Climax are supplied with fire nozzle to throw a horizontal stream 40 feet. All have solid brass ball valves, and adjustable foot brackets.

Brass Bucket Spray Pumps

All nozzles are brass and have $\frac{1}{4}$ -inch thread, unless otherwise stated.

No matter how little spraying you have to do, the brass bucket sprayer is the one for long and efficient service.

The American Pump is double acting; that is, it works on both the up and down stroke, giving a continuous spray or stream.

The Climax and Peerless Pumps are single acting, giving pressure on the down stroke only, the upper stroke taking the spray into the cylinder. They do not give as continuous a spray or stream as the double acting pump. The Peerless has heavier material, larger cylinders, additional hose, and is equipped with the celebrated Peerless nozzle.

The American and Climax are supplied with fire nozzle to throw a horizontal stream 40 feet. All have solid brass ball valves, and adjustable foot brackets.

Brass Bucket Spray Pumps

All nozzles are brass and have $\frac{1}{4}$ -inch thread, unless otherwise stated.

No matter how little spraying you have to do, the brass bucket sprayer is the one for long and efficient service.

The American Pump is double acting; that is, it works on both the up and down stroke, giving a continuous spray or stream.

The Climax and Peerless Pumps are single acting, giving pressure on the down stroke only, the upper stroke taking the spray into the cylinder. They do not give as continuous a spray or stream as the double acting pump. The Peerless has heavier material, larger cylinders, additional hose, and is equipped with the celebrated Peerless nozzle.

The American and Climax are supplied with fire nozzle to throw a horizontal stream 40 feet. All have solid brass ball valves, and adjustable foot brackets.

Brass Bucket Spray Pumps

All nozzles are brass and have $\frac{1}{4}$ -inch thread, unless otherwise stated.

No matter how little spraying you have to do, the brass bucket sprayer is the one for long and efficient service.

The American Pump is double acting; that is, it works on both the up and down stroke, giving a continuous spray or stream.

The Climax and Peerless Pumps are single acting, giving pressure on the down stroke only, the upper stroke taking the spray into the cylinder. They do not give as continuous a spray or stream as the double acting pump. The Peerless has heavier material, larger cylinders, additional hose, and is equipped with the celebrated Peerless nozzle.

The American and Climax are supplied with fire nozzle to throw a horizontal stream 40 feet. All have solid brass ball valves, and adjustable foot brackets.

Brass Bucket Spray Pumps

All nozzles are brass and have $\frac{1}{4}$ -inch thread, unless otherwise stated.

No matter how little spraying you have to do, the brass bucket sprayer is the one for long and efficient service.

The American Pump is double acting; that is, it works on both the up and down stroke, giving a continuous spray or stream.

The Climax and Peerless Pumps are single acting, giving pressure on the down stroke only, the upper stroke taking the spray into the cylinder. They do not give as continuous a spray or stream as the double acting pump. The Peerless has heavier material, larger cylinders, additional hose, and is equipped with the celebrated Peerless nozzle.

The American and Climax are supplied with fire nozzle to throw a horizontal stream 40 feet. All have solid brass ball valves, and adjustable foot brackets.

Brass Bucket Spray Pumps

All nozzles are brass and have $\frac{1}{4}$ -inch thread, unless otherwise stated.

No matter how little spraying you have to do, the brass bucket sprayer is the one for long and efficient service.

The American Pump is double acting; that is, it works on both the up and down stroke, giving a continuous spray or stream.

The Climax and Peerless Pumps are single acting, giving pressure on the down stroke only, the upper stroke taking the spray into the cylinder. They do not give as continuous a spray or stream as the double acting pump. The Peerless has heavier material, larger cylinders, additional hose, and is equipped with the celebrated Peerless nozzle.

The American and Climax are supplied with fire nozzle to throw a horizontal stream 40 feet. All have solid brass ball valves, and adjustable foot brackets.

Brass Bucket Spray Pumps

All nozzles are brass and have $\frac{1}{4}$ -inch thread, unless otherwise stated.

No matter how little spraying you have to do, the brass bucket sprayer is the one for long and efficient service.

The American Pump is double acting; that is, it works on both the up and down stroke, giving a continuous spray or stream.

The Climax and Peerless Pumps are single acting, giving pressure on the down stroke only, the upper stroke taking the spray into the cylinder. They do not give as continuous a spray or stream as the double acting pump. The Peerless has heavier material, larger cylinders, additional hose, and is equipped with the celebrated Peerless nozzle.

The American and Climax are supplied with fire nozzle to throw a horizontal stream 40 feet. All have solid brass ball valves, and adjustable foot brackets.

Brass Bucket Spray Pumps

All nozzles are brass and have $\frac{1}{4}$ -inch thread, unless otherwise stated.

No matter how little spraying you have to do, the brass bucket sprayer is the one for long and efficient service.

The American Pump is double acting;

Climax Power Spray Rig, Pump, Engine and Belt

A simple, sturdy outfit to be used with any tank \$74⁵⁵

For outfit, including Pump, Engine and Belt

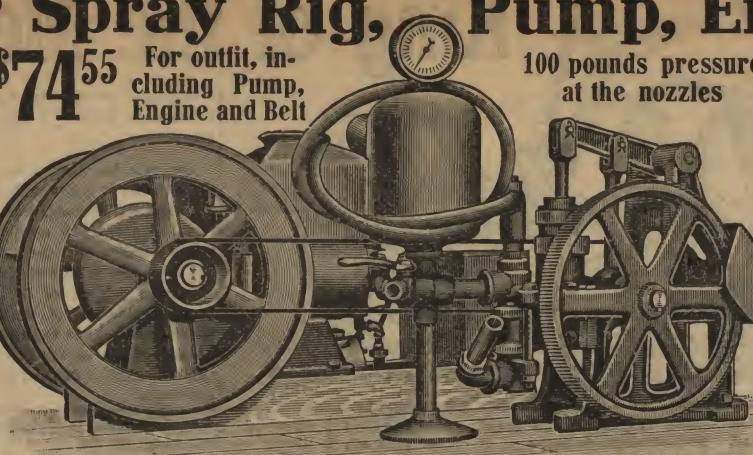
100 pounds pressure at the nozzles

With a one horse power engine, pump will supply two large nozzles and keep up a pressure of 100 lbs. at the nozzles

Can be mounted on any farm wagon

Nearly every buyer wants a spray rig fitted up his own way. With the Climax you can order hose, nozzles, extension rods and other accessories to suit your ideas, and fit up the Climax Power Spray Rig in just the way you want it.

PUMP SPECIFICATIONS: The Climax Power Spray Pump has a single acting cylinder, diameter, 2½ in., stroke, 3½ in. The piston or plunger is a bronze casting, and is outside packed. It has bronze ball valves and bronze valve seats, both valves and seats being easy to get at by removing two bolts. The large air chamber can be removed for cleaning without the use of special tools. Main frame and gears are made of semi steel. Gears have machine cut teeth and run smoothly and with very little noise. Pump is equipped with a brass ball relief valve which returns excess liquid to the tank when the desired pressure is reached. Cast iron drive pulley, diameter, 6 in., face, 4 in. Pump is furnished complete with air chamber, pressure gauge, relief valve, 8 ft. of 1 in. suction hose, 5 ft. of ½ in. relief hose, and two-way discharge cock. Shipping weight, about 110 lbs.



Engine. The illustration shows our one horsepower, water cooled, Dairy Maid engine, which is sufficient to operate the pump and supply two large nozzles with 100 lbs. pressure. Engine weighs about 225 lbs. For complete description see engine pages. The outfit, as shown, measures: width, 34 in., height, 26 in., length, 5 ft. Shipping weight, complete, about 340 lbs.

Climax Hand and Power Pumps for Spraying

Hand Pump is surprisingly easy to operate. The long leverage of handle and convenient position enable operator to keep up pressure with less exertion than with many pumps not half so powerful.

Power Pump can be operated by any small engine of one horse power or more.

Has 2½-inch brass cylinder, 5½-inch stroke. Solid brass ball valves and removable brass valve seat. Large auxiliary iron air chamber. An excellent high pressure power pump for orchard work. Adapted for all kinds of spraying, whitewashing, etc. Will handle any kind of liquid that can be formed into spray.

A low priced and exceptionally powerful spray pump with large tanks, adapted for orchard work. Can be operated either by hand or belt power with the addition of a pump jack. Has extension on piston to which handle is attached with 1¼-inch wide slotted iron end drilled for ½-inch bolts, to which any pump jack with a stroke of 5½ inches or less can be attached. Handle is easily removable to use with power and replaced quickly.

Has strong iron frame and iron air chamber. Regularly furnished with 10 ft. of ½-inch discharge hose, extra quality, that will stand a pressure of 300 lbs.; 3 ft. of spray pipe with shut-off cock; one adjustable spray nozzle for fine or coarse spraying; one length suction hose, diameter, 1 in.; length, 5½ feet, complete with strainer; also 200-lb. pressure gauge. Complete directions for operating and for connecting the pump jack regularly furnished. Net weight, 70 lbs. Weight boxed for shipment, 85 lbs.

188B2312—Climax Hand and Power Sprayer. \$16.75

Without pump jack. Price.....\$16.75

188B2314—Climax Hand and Power Sprayer with relief valve. Complete with pump jack (as in large illustration) with base. Has 12-inch, tight and loose pulleys, mounted on wood platform. Wt., 170 lbs. Price.....\$24.90

188B2316—Brass Two-Way Cock, to attach two leads of hose. Weight, 2 lbs.....\$1.70

Climax General Purpose Sprayer

Whitewasher and Fire Protector

For use with barrel, bucket, or any kind of tank or vessel not higher than a barrel. For all kinds of tree and bush spraying. For whitewashing poultry houses, washing windows, etc. For applying cold water, paints or whitewash no better pump of its size to be had.

Has suction hose with strainer on end to spray from bucket, small tank or barrel. Has two extra strong iron legs with screw slot, so that it can be screwed to a small platform or plank on which the bucket or barrel rests, and can readily be moved about as desired. Made entirely of brass, except base, legs and handle. Has brass solid ball valves and brass valve seats. Exceptionally forceful and very easy of operation. Regularly furnished with 8 ft. of ½ in. discharge hose with shut-off cock; 6 ft. of spray pipe; 1 spray and 1 solid stream nozzle; 5 ft. of suction hose, with strainer and 1 follower wrench. Shipping weight, boxed, 28 lbs.

188B2336—Price, Complete Outfit. \$5.50

Climax Paint Sprayer

High Pressure. Adapted for various kinds of spraying, as well as paints

Will satisfactorily spray mineral, graphite, oxide, whitewash, or pure oil paints

Will not spray lead paints

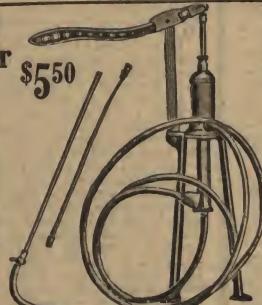
Equally suitable for general farm spraying, including medium size trees, small fruits, field crops, disinfecting, etc.

It will easily develop up to 100 lbs. pressure.

The pump cylinder is seamless brass tubing, diameter, 1½ in. Brass ball valves and seats. All brass air chamber. Tank is 6 gallon size, made of heavy galvanized steel.

Regularly equipped with 10 feet of ½ inch discharge hose; shut-off cock; follower wrench; and spray nozzle. Especially adapted for paints and whitewash. For fine mist, bush and tree spraying the Vermorel and angle nozzles, quoted on opposite page, are recommended. Shipping weight, crated, 30 lbs.

188B2370—Price, complete \$6.80



Climax Barrel Spray Outfit

Compact and durable spraying outfit for hand use that does as good work as many of the big power sprayers mounted on runners or wheels. Easily transported with one horse. The right outfit for small orchards. Low-down, high pressure hand pump outfit.

The Climax Outfit will do a great amount of spraying. Constructed to be practically free from trouble. The pump is on the outside. Outfit is exceptionally strong and durable. Built to give long service.

THE PUMP is double acting, with 3-in. brass-lined cylinder, brass valve-seats, brass piston rod, and packing nut. Tested to a pressure of 150 lbs. Can readily be removed to use for other purposes.

BARREL holds about 48 gal. Has galvanized steel mechanical agitator with dashers that actually churn the solution at the bottom of barrel, so that there is no danger of sediment settling.

SED AND TRUCK are framed in and bolted together. The barrel is bound to frame at both ends with strong iron bands. Suction pipe extends down close to bottom of barrel and is fitted with copper strainer. Hose is ½-inch specially made for spraying purposes. With the 10 ft. extension pipe the tallest fruit trees can be thoroughly sprayed. The large capacity of the pump necessitates only a few strokes of the handle to put the solution under high pressure, and continues the spray several minutes after the pumping ceases.

288B2320—Outfit mounted on runners.

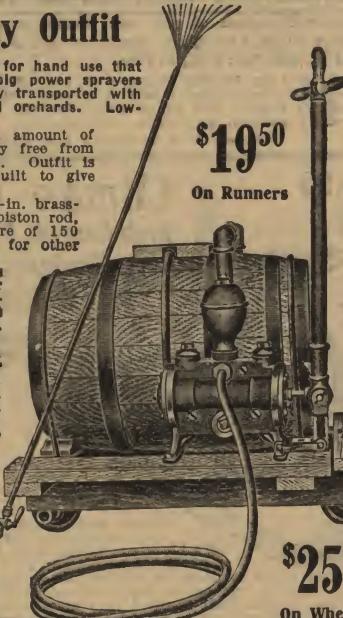
Complete, with 20-ft. hose; one each spray, sprinkler and solid stream nozzle; one 10-ft. extension pipe, with brass handle stop cock. Wt., \$19.50

288B2322—Outfit mounted on trucks in place of runners. Transported by hand or with one horse. Otherwise exactly the same as above. Shipping weight, 270 lbs. Price.....\$25.50

Shipped from factory in Indiana.

\$19.50
On Runners

\$25.50
On Wheels



Climax Heavy Barrel Sprayer

For big capacity, easy operation, continuous spray, you need our CLIMAX. Strictly high grade. New for 1916. Retails at \$16.00. Price

Brass Cylinder, 2½ inch diameter, Brass Ball Valves and Valve Seats, Paddle Agitator, Combination Adjustable Base Plate, for Attaching to Either Side or Head of Barrel.

For Large or Small Orchards, Vineyards and Shrubbery, For Whitewash or Cold Water Paints

Our new Climax Double Acting Sprayer has proven a great favorite among the fruit growers on the Pacific Coast, who are the most critical orchardists, and insist upon having the best machines. Has all the elements of long-wearing construction.

Showing Pump attached to side

is easily cleaned. Double acting, making a continuous spray. Considering the large capacity, it is easily operated. Will readily supply two leads, or nozzles, and much easier than the big, cumbersome pumps that are made mostly of cast iron. Diameter of cylinder, 2½ in. submerged, requiring no priming. By removing two bolts the valve is accessible, making the pump easily and quickly cleaned. The stroke on lever handle is adjustable by removing one bolt. brass, it will give long service. Sufficiently light to be easily handled.

Made almost entirely of brass, it will give long service. Sufficiently light to be easily handled.

Regular equipment consists of 15 feet of ½ in. high-grade hose; one brass Y, so that two leads can be used, desired; adjustable base, or barrel plate, with removable cap for filling without removing pump, and to attach to either side or head of barrel; adjustable handle for long or short stroke, paddle agitator working on every stroke of the pump handle; and Vermorel nozzle, with long stem for coarse or fine spraying. (Bordeaux nozzle for whitewashing extra.) Shipping weight, complete, boxed, 76 lbs. (Barrel not furnished.)

188B2340—Price, complete, with one lead of hose.....\$11.90

188B2342—Price, complete with two 15-ft. leads of hose and nozzles.....\$14.60

188B2176—Bordeaux Nozzle. For whitewashing, or cold water paints. Weight, 4 oz. Extra.....\$48

Shipped from factory in Indiana.

\$11.90



Climax Whitewasher and Sprayer

No. 1 Size. Capacity equal to 20 men with brushes.

No. 2 Size. Capacity equal to 10 men with brushes.

Will handle equally well whitewash, cold water paints, mineral oil paints, or any similar mixture except lead paints. For all kinds of spraying. No. 1 size, or larger machine, for big work such as orchard spraying, whitewashing or cold water painting, in factories, stockfarms, etc. No. 2 size, similar but smaller. Directions furnished.

No. 1 Size—(as shown in illustration). Has strong iron frame. Galvanized steel air chamber, 4½x18 inches. Brass cylinder, diameter, 2 inches; stroke, 3½ inches. Brass plunger rods, solid brass ball valves, and valve seats. Furnished with 200-pound pressure gauge; sieve for straining lime; 20 feet of half-inch five-ply discharge hose, with couplings; three feet spray pipe, with shut-off cock; one length of suction hose; one spray nozzle, with extra tip. Mounted on wooden platform. Shipping weight, 100 lbs. Price.....\$23.80

No. 2 Size—Similar to No. 1, except has all brass air chamber, 3x16 inches. All brass cylinder, diameter 1¾ inches; stroke, 3½ inches. Ten feet of half-inch, five-ply discharge hose with couplings; three feet spray pipe. Shipping weight, 80 lbs. Price.....\$15.50

188B2365—Shipping weight, 100 lbs. \$23.80

188B2367—Shipping weight, 80 lbs. \$15.50

Shipped from factory in Indiana.



Newcomer Barrel Spray Pump

Double-Acting, Brass Nozzles, Brass Cylinders, Brass Valves, Brass Valve Seat, Paddle Agitator. Easily and quickly attached to any barrel. Patterned after and with all the qualifications of high grade barrel pumps that sell at retail for \$12 to \$15.

For various kinds of spraying, including orchards, vineyards, shrubbery, or for whitewashing dairies, poultry houses, etc.

All working parts are submerged in a liquid and require no priming. The pump is made of heavy brass. All valves and valve seats are made of good quality brass and will not corrode or rust. It is fitted with a paddle agitator connected to pump rod and operates with movement of the pump handle. An excellent agitating device.

One lead of ½-in. hose furnished regularly.

Vermorel nozzle has two caps, one for fine and one for coarse spraying. (Two leads can be attached to pump by use of Y and extra hose.) Shipping weight, boxed, 42 lbs.

188B2348—Price, complete with 5 ft. hose.....\$6.20

88B2350—Price, complete with 15 ft. hose.....\$7.35

88B2352—Brass Y attachment for two leads. Weight, 2 lbs.

88B2354—Extra lead hose 5 feet, complete with nozzle and connections. Shipping weight, 8 lbs. Price.....\$1.35

88B2356—Four-foot iron pipe extension for tree spraying with coupling. Weight, 2 lbs. Each.....\$0.20

\$6.20

Complete with hose

Prompt shipment



Reliance Barrel Spray Pumps

\$6.35



Made by one of the largest and best known manufacturers of pumps. Complete, with Hose, Nozzle, Strainer and Agitator.



DOUBLE ACTING BRASS UPPPER CYLINDER, BRASS LINED LOWER CYLINDER, CANVAS PACKED PLUNGER. No rubber or leather valves used. It is easier to operate and very powerful.

Will throw an even, mistlike spray over small fruit trees. Especially adapted for orchards, gardens and vineyards. Furnished with two discharge ports, one on each side. One or both may be used for spraying. Base is shaped to fasten to either side or head of barrel. Has liquid agitator and Vermorel spray nozzle, having 2 caps.

one for fine and one for coarse spraying. No barrel furnished. Half-inch, 3 ply hose; nozzle, strainer, and agitator regularly furnished. Shipping weight, 30 lbs.

88B2326—Price, with one 5-ft. lead of hose. \$6.35

88B2328—Price, with one 15-ft. lead of hose. \$7.45

88B2330—Extra 5-ft. lead hose, complete with nozzle and couplings. Shpg. wt., 8 lbs.

88B2332—Extra 15-ft. lead hose, complete with nozzle and couplings. Shpg. wt., 15 lbs.

88B2176—Barrel nozzle for whitewashing. Shpg. wt., 4 oz.



Climax Wheelbarrow Sprayer

Our Wheelbarrow Sprayer is well balanced; light of construction, but strong; has a large wheel, diameter, 16 in., which permits of its being easily moved over rough or soft ground.

It is well adapted for florists' use. The width of the machine being but 15 in. at the widest point, allows it to pass through the narrow passages of greenhouses.

Has 1¼ in. brass pump cylinder; bronze ball valves; valve seats, and all working parts, of brass; and iron air chamber, all securely bolted to a 10 gallon galvanized steel tank or liquid container. The machine is equipped with dasher agitator, which at each operation of the pump handle clears the suction strainer of any collection of sediment and thus prevents clogging. Furnished complete, as illustrated, with 8 feet of ½ in. discharge hose, and couplings; 3 feet of ½ in. iron extension pipe, and nozzle for fine or coarse spraying. Can be used for spraying whitewash without danger of clogging. Handles are steel, rigidly bolted to the tank. Shipped knocked down, but easily and quickly put together. Shipping weight, crated, 60 pounds.

188B2360—Wheelbarrow Sprayer. Price.....\$10.45

5-Ft. \$34⁷⁵ Cut 6-Ft. \$35⁷⁵

Steel-Forged
Knife-Head
Plates

Tested alongside the best known makes. Thoroughly tried on even and uneven ground, in heavy and light grass, and under all conditions. Will give you satisfactory and long service. Adjustments for tilting, raising and lowering that adapt it to even or uneven ground, or any kind of grass.

One-Piece Cast Frame
Babbitted Pitman Box with Thumb
Screw Oilier

The 30-Inch Cast WHEELS are very strong, but as light as can consistently be made and still retain sufficient strength. Width of face of wheels, 4 $\frac{1}{4}$ in., with anti-slip mud lugs. The main axle is cold rolled steel. Width between wheels, 41 inches.

FRAME is one piece. Shafts cannot get out of alignment. Crank shaft has brass bushings at each end that can readily be removed, and replaced with new ones when worn. Pitman, made of clear selected, seasoned hickory, will not bend or spring in heavy work, like a steel rod. Ball and socket connection at knife-head. Socket connections steel forged. Malleable pitman box, with babbitt bushing and thumb screw oiler. Pitman straps are forged steel.

The above combination has proven, on thorough test, to be the best wearing, strongest and most satisfactory combination in any mower. The babbitted pitman box will outwear a brass box, will not cut like brass and when worn can be replaced at much less expense.

Climax Windrower and Buncher

\$8.60 to
\$11.00



Especially adapted for clover, flax, alfalfa, peas, etc. Will attach to any mower without boring a hole in cutter bar. For windrowing it delivers the cut crop out of the way of team for next round. Our Windrower and Buncher ought to be in the possession of every farmer raising clover, flax, alfalfa, peas, or any similar crop. A few days' use will easily pay for it. It gathers only the crop that the mower cuts, avoiding the dead grass and weeds that a rake picks up. Any crop can be bunched or windrowed as desired. The buncher gate is necessary for bunching. The gate is attached to seat spring and operated with a foot trip, and can readily be removed entirely when windrowing. The gates are quoted extra as some farmers have no use for them.

Bunchers made of flat, high carbon steel rods adapted especially for this purpose. Attaches to the extra bar with three clamps to the guard bolt. Space between rods is 3 inches. Made in four sizes, to fit 4 $\frac{1}{4}$, 5, 6 or 7-ft. mowers.

At Ware-
factory house

288B2416—4 $\frac{1}{4}$ -ft. size. Shipping weight, 70 lbs. \$8.60

288B2418—5-ft. size. Shipping weight, 75 lbs. \$8.85 S 9.10

288B2420—6-ft. size. Shipping weight, 80 lbs. 10.10 10.40

288B2422—7-ft. size. Shipping weight, 85 lbs. 11.00

288B2424—Buncher gate for any of the above sizes. Wts., 15 to 25 lbs. (State size). \$2.20

Shipped from factory in Southern Minnesota or 5 and 6 ft. sizes with Mowers from Warehouse near Chicago.

Climax Hay Loader, \$43.00

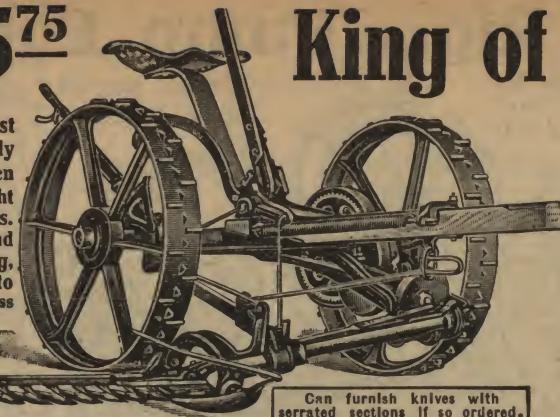
The Old Reliable Rake Bar Style. For swath or windrow. Perfectly balanced. Automatic wagon hitch. Especially adaptable for swaths and light windrows, as it takes the hay clean from either, is smooth running, with gear drive. Draft beams are clear oak with yellow hard pine in other parts where strain is not so heavy. Has one piece crank shaft, the main axle encased in 4 in. wood casing full length, that prevents sagging or springing. Gear is always in proper mesh, with little danger of breaking. Frame is entirely of hardwood, thoroughly seasoned. Wheels have heavy tires with lugs that prevent slipping. Has 8 rake arms with 6-tine forks. Rake arms are adjustable to suit the quality or quantity of hay. Loads 8 feet in width. 288B2434—Climax Hay Loader. Shipping weight, 1025 lbs. Price \$43.00 Shipped from factory in Ohio.

Climax Power Sickle and Disc Grinding Head

Will save lots of labor and repair bills on the farm—Can be operated by any small gasoline engine—for Mower SICKLES, HARROW DISCS and TOOLS.

Operates at 1600 rev. with $\frac{1}{4}$ H.P.

Has Disc Holder for grinding Harrow and Plow Discs 14 to 18 in. diameter. Bolts to bench or table. Simply constructed, and accurately machined. $\frac{1}{4}$ in. main shaft is machined steel. Bearings slotted in rear to provide a take-up, and have oilers. Two disc or tool grinding wheels furnished, each 5 $\frac{1}{2}$ in. diameter, 1 $\frac{1}{2}$ in. thick; one coarse grit; and one fine grit; also one bevel, or sickle grinding wheel, diameter in center 6 in., tapering to 4 $\frac{1}{2}$ in.; 3 $\frac{1}{2}$ in. thick at the ends. Knuckle-jointed tool rests, may be set at any angle; a sickle, or harrow disc holder and disc sharpening attachment. Diameter of pulley, 2 in., with 1 $\frac{1}{2}$ in. face. Complete to do all your farm grinding. Ship. wt., 36 lbs. Complete with sickle and disc holders; two tool and one bevel stone. 188B2480—Price \$6.75



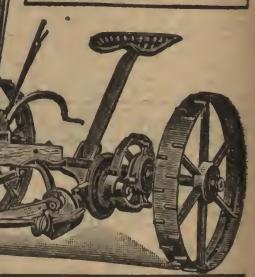
Can furnish knives with serrated sections if so ordered.

When you purchase our King of the Meadow, you can be sure of a big saving over retail prices.

For over ten years there has been a continued effort to improve, and wherever possible to overcome, any objectionable or weak features. We are now convinced that our King of the Meadow will not take second place to any other mower in light or heavy grass, even or uneven ground, or in lightness of draft. Seat is behind the cut, convenient to the levers and placed so as to balance the weight on the wheels and not on the horses' necks. Seat is adjustable either forward or backward to suit the driver.

Our prices mean a saving to you of \$10.00 to \$25.00 over retail prices, depending on your location. This saving is easily accounted for in the expense of salesmen, canvassers and middlemen, which you pay when you purchase at retail. We eliminate all this expense. Only one profit. The mower comes from the factory to you. The King of the Meadow is not a new mower or an experiment in any way. There are over 18,000 of them in satisfactory use. We believe that it is equal to any other mower made, regardless of make or brand. When you purchase it, you can rest assured that it will satisfy you, that it will do as good work, under corresponding conditions, as any other mower.

No mower made requires less renewals or repairs. Renewals or repairs can be had at any time. Do not let anyone mislead you on this point. We can furnish repairs promptly whenever needed.



MAIN GEAR has an outside guard. Other gears are enclosed. Ratchet wheel to throw in or out of gear can be operated by hand or foot. Gears, knives and wheels start at almost the same instant.

NO LOST MOTION. Outer shoes fitted with wheel, can be adjusted to cut high or low. Levers within easy reach of operator. Foot Lift, to raise bar without using hand lever. Serrated guard plates. Wearing plates and clips

hold knife to proper position, insuring perfect cut and long life to the parts which do the real work. A strong spring carries the weight of cutter bar on the wheels. Floating Cutter Bar follows the ground close and cuts the grass close. Also provided with tilting adjustment, which permits it to ride in and out of furrow, those features combining to make a perfect floating bar. Draft is well regulated, the pull being from the corner of frame at inner shoe, eliminating side draft in light or heavy work.

Regular equipment consists of neck yoke, doubletree, one extra knife, one extra section, one extra guard, wrench, one punch, one cold chisel and one oil can. Shipping weights, 5 ft., 645 lbs.; 6 ft., 665 lbs.

288B2400—King of the Meadow Mower, 5 ft. cut. Price \$34.75
288B2402—King of the Meadow Mower, 6 ft. cut. Price \$35.75
288B2404—Extra guards, with guard plate. Weight, 1 lb. Price, each .20
288B2406—Extra sections, with rivets. Weight, 2 oz. Price, each .04

Shipped from Warehouse near Chicago.

\$32.90

Hand and
Foot Cutter
Bar Lift

Climax One-Horse Mower

High Geared, 3 $\frac{1}{2}$ Foot Cut. Three Motion Gear. Brass Bushings on Crank Shaft. Malleable Iron Babbitted Pitman Box. Easy Running.

Balanced Frame

Our Climax One-Horse Mower is especially adapted for very small farms, for country clubs, golf links, parks, etc. It can readily be handled by one good horse under average conditions, where not too hilly. It is geared a little higher than the average mower, the sickle making 54 strokes to one round of the drive wheel, adapting it for use in light weeds, with very little danger of chocking or clogging in regular grass cutting. The three motion gear is a desirable feature that relieves and distributes the strain of sudden starting or stopping, greatly reducing the liability of breakage. It works on the principle of a block and tackle device and permits high speed of sickle without straining. Gears have teeth close together and strongly reinforced so that they respond instantly to the movement of the machine. Ratchet to throw in and out of gear operated by hand or foot. Hand lever lift, also foot lift to raise cutter bar. Crank shaft is fitted with brass bushings at each end. Hickory pitman with forged steel connection. Malleable iron pitman box with babbitted linings—longer wearing and less expensive to replace than brass. Diameter of drive wheels, 30 in., with 3 in. face. Furnished with shafts and singletree for one horse. Made in one size only, with 3 $\frac{1}{2}$ ft. cutting bar. Shipping weight, 550 lbs.

288B2440—Climax One-Horse Mower, 3 $\frac{1}{2}$ ft. cut. Price \$32.90

Shipped from Warehouse near Chicago.

\$18.20

TRUSS HEAD. NO SAGGING

\$20.25

\$24.25

All Steel Double Hub Bicycle Wheels
Self-Dump—Hand-Dump—Foot-Dump
 $\frac{3}{8}$ in. or $\frac{1}{2}$ in. Teeth

For one or two horses. Will do perfect work in either heavy, light or tangled hay, alfalfa or clover, and no other rake will do better in cornstalks.

WHEELS—Double-hub, 54-inch bicycle wheels, each with 16 half-inch staggered spokes, and with heavy 2-inch channel steel tires.

FRAME—Made of high carbon angle steel, thoroughly braced, bolted and riveted. Head is strengthened with a truss rod.

TEETH—Are high quality oil tempered, high carbon steel, with great strength and elasticity. Rakes listed below with $\frac{3}{8}$ or $\frac{1}{2}$ inch teeth. The $\frac{1}{2}$ inch are recommended for extra heavy work, rough ground or corn stalks. Points are flattened sledge runner shape.

Con sidered one of the easiest adjusted hand sickle grinders on the market. Grinding wheel revolves 25 times to one turn of the crank.

Adjustable clamp at bottom, to conveniently attach to wheel on harvester or mower, for sickles; and to bench or table, for grinding tools. Mower Knife Holder adjustable as desired, and firmly holds the mower knife with two guides or rests, adjustable for any width or thickness of knife backs. Spring clamp allows shifting of the knife to any position while grinding. Disc attachment will handle any disc or wheel plow cultiver, and sharpen it at any level. Grinding stones are made of vitrified corundum, harder, sharper and faster-cutting than other stones used on grinders.

Frame is built from selected maple. Malleable working parts, steel shafts. Ship. wt., boxed, 56 lbs. 188B2485—Price, complete \$5.30

Shipped from Warehouse near Chicago.

\$5.30

All Around Farm
Grinder

Will Sharpen
Sickles, Harrow
Discs, and various
kinds of Farm Tools.
High Speed
Easy Operation

Each Grinder
furnished complete
with vitrified
corundum
grinding
wheels,
one bevel shaped,
for sickle blades,
one flat faced tool
wheel, diameter,
4 $\frac{1}{4}$ in., 1 $\frac{1}{2}$ in.
face, one sickle
blade or mower
knife holder and
one disc-grinding
attachment.

The bicycle-like
system of gear and
chain on our Cil-
max Power Sickle
Grinder furnishes
the power required
to move the
grinding wheel.
The sickle attachment
allows any adjustment
desired, and firmly holds the knife, regardless
of width or thickness of knife backs. Spring
clamp permits shifting of the knife to any
position while grinding. Disc attachment will handle
any disc or wheel plow cultiver, and sharpen it
at any level. Grinding stones are made of
vitrified corundum, harder, sharper and faster
cutting than other stones used on grinders.

Frame is built from selected maple. Malleable
working parts, steel shafts. Ship. wt., boxed, 56 lbs. 188B2485—Price, complete \$5.30

\$2.25

Climax Sickle and Tool Grinder

Each Grinder
furnished complete
with vitrified
corundum
grinding
wheels,
one bevel shaped,
for sickle blades,
one flat faced tool
wheel, diameter,
4 $\frac{1}{4}$ in., 1 $\frac{1}{2}$ in.
face, one sickle
blade or mower
knife holder and
one disc-grinding
attachment.

Con sidered one of the easiest adjusted hand
sickle grinders on the market. Grinding wheel
revolves 25 times to one turn of the crank.

Adjustable clamp at bottom, to conveniently
attach to wheel on harvester or mower, for
sickles; and to bench or table, for grinding
tools. Mower Knife Holder adjustable as
desired, and firmly holds the mower knife
with two guides or rests, adjustable for any
width or thickness of knife backs. Spring
clamp allows shifting of the knife to any
position while grinding. Disc attachment will handle
any disc or wheel plow cultiver, and sharpen it
at any level. Grinding stones are made of
vitrified corundum, harder, sharper and faster
cutting than other stones used on grinders.

Frame is built from selected maple. Malleable
working parts, steel shafts. Ship. wt., boxed, 56 lbs. 188B2485—Price, complete \$5.30

\$2.25

Climax Two-Wheel
Sweep Rakes

Each Grinder
furnished complete
with vitrified
corundum
grinding
wheels,
one bevel shaped,
for sickle blades,
one flat faced tool
wheel, diameter,
4 $\frac{1}{4}$ in., 1 $\frac{1}{2}$ in.
face, one sickle
blade or mower
knife holder and
one disc-grinding
attachment.

Con sidered one of the easiest adjusted hand
sickle grinders on the market. Grinding wheel
revolves 25 times to one turn of the crank.

Adjustable clamp at bottom, to conveniently
attach to wheel on harvester or mower, for
sickles; and to bench or table, for grinding
tools. Mower Knife Holder adjustable as
desired, and firmly holds the mower knife
with two guides or rests, adjustable for any
width or thickness of knife backs. Spring
clamp allows shifting of the knife to any
position while grinding. Disc attachment will handle
any disc or wheel plow cultiver, and sharpen it
at any level. Grinding stones are made of
vitrified corundum, harder, sharper and faster
cutting than other stones used on grinders.

Frame is built from selected maple. Malleable
working parts, steel shafts. Ship. wt., boxed, 56 lbs. 188B2485—Price, complete \$5.30

Shipped from factory in Missouri.

\$24.25

Climax Four-Wheel Buck or Sweep Rake

Strong and durable. Excellent lever control. Full length pipe axle. Made of hard pine well planed, well squared, well dried and carefully selected teeth.

Con sidered one of the easiest adjusted hand
sickle grinders on the market. Grinding wheel
revolves 25 times to one turn of the crank.

Adjustable clamp at bottom, to conveniently
attach to wheel on harvester or mower, for
sickles; and to bench or table, for grinding
tools. Mower Knife Holder adjustable as
desired, and firmly holds the mower knife
with two guides or rests, adjustable for any
width or thickness of knife backs. Spring
clamp allows shifting of the knife to any
position while grinding. Disc attachment will handle
any disc or wheel plow cultiver, and sharpen it
at any level. Grinding stones are made of
vitrified corundum, harder, sharper and faster
cutting than other stones used on grinders.

Frame is built from selected maple. Malleable
working parts, steel shafts. Ship. wt., boxed, 56 lbs. 188B2485—Price, complete \$5.30

Shipped from factory in Missouri.

MONTGOMERY WARD & CO. CHICAGO

The farmer's friend—our Lakeside Fence Plier. See Index.

Superior Power Feed Cutter



Powerful, fast-cutting feed and ensilage cutter that can be operated with very light power. Safety Fly Wheels. Reversible, Cutting Bars. For 20 to 40 Head of Stock. Safety Stop Levers.

\$20.45

Four 11-inch Knives

Safety fly wheel is very heavy and is set to the main shaft by a safety friction block. Should any foreign substance suddenly stop the machine the fly wheel will slip off shaft, protecting against breakage. Has solid fly wheel as shown in illustration. Furnished with 10x5 in. pulley; speed is 400 revolutions; capacity, 1 to 1½ tons dry fodder and 2 to 3 tons green fodder per hour.

Art. No.	Size	Knives	Cuts	H. Power Required	Ship. Weight	Price
288B2800	No. 1 1/4-1 1/2 in.	1/4, 1 in.	1 to 2 1/2	435 lbs.	\$20.45	
288B2802	Crank to run by hand, extra.				650	
288B2804	12 ft. swivel elevator for No. 1 cutter.	Ship. wt. 200 lbs.	\$17.50			
288B2806	Extension to increase elevator in 4, 8 or 12 ft. lengths.	Ship. wt. per ft. 12 lbs.	Price, per foot.	70c		

Shipped from Warehouse near Chicago or from factory in Ohio.

Chicago Feed Cutter

\$6.80 and \$7.20



AN EXCELLENT RUNNING CUTTER FOR A FEW HEAD OF STOCK. Knife is tempered tool steel, and makes a downward shearing cut. Is adjustable to cut from 1/2 to 1 1/2 in., and geared to make 3 cuts to one turn of the crank. Main shaft is 1 1/2 in. cold rolled steel. Heavy balance wheel. Has a fluted roll that feeds to knife. Capacity, per hour, about 150 to 200 lbs. of dry fodder, 300 to 400 lbs. of green fodder. Shipping weight, 160 lbs.

288B2870—Price at warehouse near Chicago. \$6.80

288B2872—Price at factory in Ohio. 7.20

288B2874—Extra Knife. Wt. 4 lbs. 1.00

Shipped from warehouse near Chicago or from factory in Ohio.

Superior Hand or Power Feed Cutter

Pulley to run by power. Crank to operate by hand. Especially adapted for Poultry account of its fine cut.

Three knives, length, 10 1/2 inches.

Cuts 1/8, 1/4 or 3/8 inch lengths.



Heavy Hardwood Bolted Frame. Capacity for 10 to 20 head of stock, and sufficiently easy to run by hand, when a small amount of feed only is desired. Knife-head shaft is extended so that pulley and balance wheel can be placed on either side, but both cannot be on one side at one time. Has safety stop lever that stops the feed rolls instantly without interfering with the cutter head. Has friction balance wheel by which the wheel will turn on the shaft, should any hard substance stop the cutting head, thereby preventing the danger of breakage. Has sliding cone gear for changing length of cut. Feed rolls are driven by expansion gearing, and pressure is controlled by equalizer and spring board. Knives are detachable and adjustable. 1 to 1 1/2 H. P. required at 300 to 400 R. P. M. Diameter, driving pulley, 10 in.; face, 3 in. Crank to run by hand, also furnished. Capacity per hour, dry fodder, 800 to 1200 lbs.; green fodder, 1200 to 2400 lbs. Shipping wt. 300 lbs.

288B2860—Complete, with pulley and crank. \$18.90

Shipped from Warehouse near Chicago.

Superior Hand Feed Cutters

Tempered Tool Steel Knives—Bolted Frame

Run by hand. Has heavy balance wheels, which, with the shearing cut of knives, makes the machine very light running. Frame, made of heavy hardwood, strongly bolted together. Shaft is heavy, cold rolled steel. Knives are oil tempered tool steel and so constructed as to make a downward shearing cut. Feed Rolls are large and driven by expansion gearing which allows the rolls to open up when the machine is fed heavy and still gives a positive and uniform feed.

Length of Cut easily changed by cone gearing. Has safety lever so that feed roll can be stopped instantly while the machine is running.

When both knives are used the cuts on the smaller machine are 1/4 in., or 1 in. in length. On the larger machine 1/2 in., 5/8 in., or 1 in. in length. Cuts can be made twice as long by removing one of the knives. The feed table throat is designed to give ample room and to reduce the labor of feeding to a minimum.



\$10.10

Banner Lever Feed Cutter

For 1 or 2 head of stock

The frame is strong, solid and durable. The knife is of carefully tempered steel. Has a gauge which regulates the length of the cut. Lever is fitted with a guard so that when the knife passes the cutting bar, this guard closes the throat to prevent the fodder from being pushed too far forward. Strong, hardwood frame, hardened, steel knife. Shipping weight, about 45 pounds.

288B2848—Price at factory in Ohio. \$2.40

188B2850—Price at Chicago. \$2.55



\$2.40

Superior Ensilage Cutters with Blowers or Steel Elevators

Serviceable and economical Silo Fillers. Big, powerful, well constructed machines that have been thoroughly tried and tested. As strong, durable and easy running as any other machines of equal capacity. Made in three sizes, with either drop leaf or traveling self-feed tables and with or without enclosed steel elevator or blower. Suitable for all kinds of dry or green fodder, including corn on the cob.

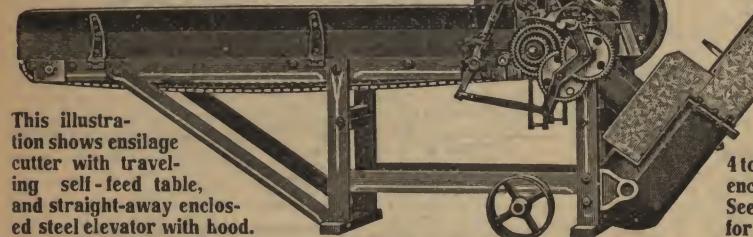
Construction of Cutter

Frames are entirely of hardwood, very heavy, strongly braced, and put together with mortised and tenoned joints, and bolted. Tempered Steel Knives are spiral shaped, set to make a shearing, downward cut against steel cutting bar. Knives attached to heads by bolts and have adjustable screws to regulate each in relation to the steel cutting bar. Extra large hood over knives gives plenty of clearance with no danger of clogging; is also a protection against accidents. Main shafts on cutting head made of cold rolled steel, to which pulleys and balance wheels are attached. Either can be used on either side. Feed rolls have expansion gearing and pressure is exerted on an equalizer bar so that feed roll is raised the same at each end and there is no binding or undue friction in the boxes.

Safety patented, friction balance wheel will turn on shaft if any hard substance gets in with feed and suddenly stops knives. Safety stop lever, to immediately stop or start all working parts except the cylinder head.

Feed Tables

Either size furnished with either drop leaf or traveling self-feed table. Traveling self-feed table shown in both illustrations. We especially recommend purchase of the self-feed table for filling silos or for any work requiring the full capacity of machine. The fodder once placed on the table requires little attention. The feed table decreases the labor of feeding by one-third. It is sufficiently long to readily handle longest feed. The force feed device is a traveling apron that runs at same speed as feed rolls. Apron is controlled by safety lever same as feed rolls. Drop leaf table requires feeding by hand. One side leaf drops on a level with bottom of table giving a wide surface and is built low so that it is within easy reach of the operator.



This illustration shows ensilage cutter with traveling self-feed table, and straight-away enclosed steel elevator with hood.

The following table of prices and specifications is for cutters only, without elevators or blowers.

Article No.	Size	Knives	Size of cut	Power Required For Cutters Only	Speed Rev. per Minute	Pulleys	Capacity per Hour		Prices Cutters Only	
							Dry Fodder	Green Fodder	Shpg. Wts. with Drop Leaf Table	With Drop Leaf Table No Elevator
288B2900	No. 1	4-13 in.	1/4, 1/2, 3/4 in.	3-4 H. P.	500-600	10x6	1 1/2-2 1/2 tons	3-5 tons	510 lbs.	\$24.80
288B2902	No. 2	4-16 in.	1/4, 1/2, 3/4 in.	4-6 H. P.	500-600	12x6	3-4 tons	6-8 tons	850 lbs.	56.30
288B2904	No. 3	4-20 in.	1/4, 1/2, 3/4 in.	6-8 H. P.	500-600	14x6	6-8 tons	12-16 tons	1400 lbs.	88.75

Unless otherwise specified on order, we will furnish regular Pulleys. To insure proper speed, state in your order the horse power of your engine, the diameter and width of face and the speed of the engine pulley. We will then furnish a pulley of correct size on the cutter, to run it at the proper speed.

Straightaway Enclosed Steel Elevators For Superior Cutters Only. In figuring the length required, order about 1/4 more than the height in feet of the silo. Horse Power Required For Cutters With Elevators—No. 1, 4 to 6 H. P.; No. 2, 6 to 8 H. P.; No. 3, 8 to 10 H. P.										
288B2906—No. 1 Elevator for No. 1 Cutter. Length, \$29.95										
288B2908—Extra Extension for No. 1 Elevator. To increase length over 12 feet. Weight, per foot, 10 lbs. Per foot. \$1.00										
288B2910—No. 2 Elevator for No. 2 Cutter. Length, \$32.00										
288B2912—Extra Extension for No. 2 Elevator. To increase length over 12 feet. Weight, per foot, 12 lbs. Per foot. \$1.10										
288B2914—No. 3 Elevator for No. 3 Cutter. Length, \$38.00										
288B2916—Extra Extension for No. 3 Elevator. To increase length over 12 feet. Weight, per foot, 18 lbs. Per foot. \$1.25										

All Elevators and Extensions shipped from Warehouse near Chicago

Hoods and Distributor Pipe in 4-Foot Sections. Heavy Galvanized Steel. Hood is necessary and any number of pipe sections can be attached. Sections telescope and fasten with snaps so are flexible and allow distributing Silage at any point inside the Silo. Sections easily detached as the filling of Silo progresses.

NOTE: 24-foot Silos require 5 Sections and hood; 30-foot, 6 Sections and hood; 36-foot, 8 Sections and hood.

288B2920—Hood for No. 1 Elevator. Ship. wt., 20 lbs. Price \$4.60

288B2922—Hood for No. 2 Elevator. Ship. wt., 25 lbs. Price 4.75

288B2924—Distributor Pipe for Nos. 1 and 2 Elevators, in 4-foot Sections. Diameter at large end 10 1/4 inches, at small end, 9 inches. Complete with Snap connectors. Wt., 5 lbs. per ft. Price, per 4-foot Section. \$1.50

288B2926—Hood for No. 3 Elevator. Ship. wt., 30 lbs. Price 5.95

288B2928—Distributor Pipe for No. 3 Elevator, in 4-foot Sections. Diameter, large end, 12 in. Small end, 10 inches. Per section. \$1.75

Hoods and Pipes shipped from Warehouse near Chicago.

Prices for Outfits Quoted Below are for Cutters Complete With Blowers. As Shown Above, With Collapsible Hood and Top Elbow. Galvanized Piping is Extra. When Ordering Pipe, Order 5 Feet Less Than Height of Silo. Horse Power Required: No. 1 Outfit, 12 to 18 H. P.; No. 2, 15 to 20 H. P.; No. 3, 20 to 25 H. P.

288B2932—No. 1 Outfit. Consists of No. 1 Blower and 12 to 18 ft. of pipe. Price, per foot, 3 lbs.

288B2934—Blower Pipe for No. 1 Outfit. Diameter, 7 in. Weight, per foot, 4 lbs. Price, per foot.

288B2936—No. 2 Outfit. Consists of No. 2 Blower and 12 to 18 ft. of pipe. Price, per foot, 4 lbs. Weight, per foot, 4 lbs.

288B2938—Blower Pipe for No. 2 Outfit. Diameter, 8 in. Weight, per foot, 4 1/2 lbs. Price, per foot.

288B2940—No. 3 Outfit. Consists of No. 3 Blower and 12 to 18 ft. of pipe. Price, per foot, 5 lbs. Weight, per foot, 5 lbs.

288B2942—Blower Pipe for No. 3 Outfit. Diameter, 11 in. Weight, per foot, 5 lbs. Price, per foot.

Blower Outfits and Pipe shipped from Warehouse near Chicago.

Climax Stump Pullers \$14.45 to \$53.75

Sweep out
of Gear

Free Trial Offer

Send us your order, accompanied by cash, for the size of puller you require. Put it to work and within 20 days from the date you receive it, if it does not work to your satisfaction, and if upon notice from you, we cannot correct any trouble you may have with it, and if in competition with other pullers, you do not find it up to requirements in every way, notify us and we will give you instructions to return it.

Simplest

is one of the greatest features of our Climax. Few working, therefore, few wearing parts.

Light Weight

is another factor that increases the value of our Climax over similar stump pullers. Easily and quickly shifted so that a greater amount of work can be done in a given time than with most other makes.

V-Shaped Iron Drum

winds the rope like thread on a spool and preserves its life so that it cannot chafe as rope would on a grooved drum. The first three coils act as a bed, equalizing the pressure to the next three coils. There is no flattening or breaking of the wires. One rope on our V-shaped drum will outwear two ropes on many other styles of stump pullers.

Will clear land, acre at about one-half the cost of most stump pullers. An Illustrated Book of directions, showing different methods of pulling stumps and instructions for setting up and operating our stump pullers, furnished with each machine.

The sweep can be instantly adjusted to any length by shifting the center shaft, to shorten the sweep to gain speed in light work, or to lengthen it to gain power for heavy work.

Automatic Ratchet Pawl

is made of one piece, with no springs or traps, to become disengaged. Its action is automatic and positive. It bears on the side of the Platform where the whole machine must resist the load. Far superior to the so-called double safety ratchets on other machines.

Snatch Blocks or Doubling Power Pulleys



Made of Steel

Open

To decrease strain on rope, and to double, triple, or quadruple the power according to the number used.

Have hitch rope with slip hook on one end, and a rope hook on the other. Heavy steel frames.

288B9020—No. 1 for pulley ropes up to 1/2 in. diameter, complete with 12 ft. 1/2-in. hitch rope; weight, 60 lbs. Price \$8.45

288B9023—No. 2 for pulley ropes up to 1/2 in. diameter, complete with 15 ft. 1/2-in. hitch rope; weight, 80 lbs. Price \$12.20

288B9025—No. 3 for pulley ropes up to 1 in. diameter, complete with 15 ft. 1-in. hitch rope; weight, 110 lbs. Price \$16.45

Shipped from factory in Southeastern Minnesota.

Anchor Ropes \$4.90

Used to anchor machine to a stump or tree, allowing space for the horses to pass between the machine and anchor stump or tree, for scattering timber, willow bunches, moving buildings, etc. One end has patent rope hook, the other loop coupling, and can be instantly attached or detached. Length of ropes, 25 ft., of high grade steel strand.

Article No.

Size Anchor

Rope

Weight

Price

288B9040

5/8 in.

30 lbs.

\$4.90

288B9041

3/4 in.

40 lbs.

6.40

288B9042

5/8 in.

55 lbs.

7.90

288B9043

1 in.

70 lbs.

9.50

Shipped from factory in Southeastern Minnesota.

Cluster Ropes For Use in Thick Growth of Trees, Brush, Stumps, and Grubs.

Made from our best steel wire rope. Four 10 ft.

lengths, each with a rope hook at one end, babbited securely in the cluster anchor casting. They are light, handy, and save considerable time and labor by pulling four stumps at one time.

288B9063—Rope Cluster made of

5/8-in. rope, length of each rope (4 in all), 10 ft.; weight, complete, 70 lbs. Price, \$10.90

288B9066—Rope Cluster, made of 5/8-in. rope, length of each rope (4 in all), 10 ft.; weight, com

plete, 90 lbs. Price \$13.95

Shipped from factory in Southeastern Minnesota.

Climax Sweep Horse Powers, \$23.45

Each power has two speeds.

The high speed is on the long shaft, which is squared at both ends, one end turning with the horses and the other end turning against the horses. Both of the short shafts turn with the horses and both have the same slow speed, therefore only one is squared for coupling.

Illustration shows 4 horse power, other sizes are similar, except the 2-horse power has no stake lugs. Two steel tumbling rods, three knuckles, rod block, foot board and stakes furnished with each power. The 2 H. P. has 2 sweeps and two lead poles, making 32 revolutions on the high speed and 10 1/2 on the low speed, to one round of the horses. Length of tumbling rods, 11 ft. Shaft and rods squared to 1 inch. The 4 H. P. has two sweeps and two lead poles, Makes 51 revolutions on the high speed and 11 revolutions on the low speed to one round of the horses. Length of tumbling rods, 10 and 12 ft. Rods and shafts squared to 1 1/2 inches.

We do not recommend our horse powers for use with threshing machines.

Ship. Wt.

about lbs.

Price

288B9090—2 H. P. with 2 sweeps. 760. \$23.45

288B9092—4 H. P. with 2 sweeps. 1,080. 31.90

288B9094—6 H. P. with 4 sweeps. 1,170. 34.40

288B9096—8 H. P. with 4 sweeps. 1,450. 49.50

Shipped from factory in Southeastern Minnesota.

Stutzman Fruit Evaporators

Stutzman evaporators are made of galvanized steel; durable, simply constructed and easily operated. They are well known throughout the country, having been on the market for a number of years. They have not only given universal satisfaction, but are conceded to be the best evaporators of this kind now built. Made in two sizes. Directions with each.

Size No. 2, Capacity, 3 to 4 bushels per day. This size is used mostly by farmers. Has 16 trays, 12x24 in., with all latest improvements. Made of excellent galvanized iron with galvanized wire cloth trays. Weight, 175 lbs.

288B9123—Price, complete with grate. \$16.75

Size No. 3, Capacity, 4 to 5 bushels per day. This size is made expressly for large family use and small orchards, where a portion of the fruit is sold in the market; has 20 trays, 12x24 in. The latest, improved frame, made of excellent galvanized iron, with galvanized wire cloth trays. Weight, 225 lbs.

288B9125—Price, complete with grate. \$20.75

Shipped from factory in Indiana

Challenge Portable Scales

Two Sizes, Capacity 600 or 1000 Lbs.

Made so that inspectors will approve them. Will weigh

anything from 1/2 lb. to full capacity.

Equal in construction, durability, quality of material, and appearance to scales that retail at from \$10 to \$12. Every scale tested, carefully fitted, sealed under U. S. Standard Weights. Every part handled by skilled scale-makers. The weighing beam is of solid brass, carefully and plainly graduated from 1/2 lb. to 100 lbs. The sliding poise is brass, and will weigh correctly on any corner as well as in the center. Diameter of wheels, 5 in. The frame of platform and base are made of close-grained, soft, gray iron, and will stand rough usage. Tightly boxed.

188B9145—Challenge 600 lb. scales:

platform, 15x21 in. Shipping weight,

boxed, 100 lbs. \$7.35

188B9148—Challenge, 1,000 lb.

scales; platform, 17x23 in. Shipping

weight, boxed, 120 lbs. \$8.90

Shipped promptly from stock at Chicago

600 lb. \$7.35

1000 lb. \$8.90

At Chicago

Tool Steel

Pivots

Extra

Hard Chilled

Bearings

Thousands of miles per year—our sales of Ajax Fencing

967 MONTGOMERY WARD & CO.

CHICAGO

Chicago

967 MONTGOMERY WARD & CO.

CHICAGO

Horse Brushes and Combs and Clippers



95B6600—Oval shape, flat face Horse Brush. Nine rows gray tampico center and white outside. Embossed back with patent leather strap. Size of brush, $\frac{3}{4}$ in. by $4\frac{1}{2}$ in. Weight, 7 oz. Each. Per dozen \$1.60 Each15

95B6605—Compactly filled with the very finest quality of brown India fibre. This is a large size brush, a good cleaner, and very serviceable. Oval shaped hard wood backs, size $\frac{3}{4}$ in. by $3\frac{1}{2}$ in. Patent leather hand strap. A very profitable brush for any person to buy. Weight, each, 11 oz. Per dozen \$1.50 Each15

95B6610—Our Fine Tam-pico Dandy, or Dandruff Brush. These brushes are made from a fine grade of gray Tampico, specially prepared, the fibre being 2 in. long. The face of the brush is rounded and is extra heavily stocked. The back is 10 in. by $2\frac{1}{2}$ in. With finger guards. Pointed at each end. White shellac finish. Weight, about 15 oz. each. Per dozen \$3.00 Each27

95B6615—Oval shape, genuine patent leather back, heavy harness leather strap. Eleven rows of stiff black imported tampico. These brushes are good size, well filled, and are positively the best brushes ever sold at so low a price. Size of brush, $9\frac{1}{4}$ in. by $4\frac{1}{2}$ in. Weight, each, 14 oz. Per dozen \$3.25 Each30

95B6620—Made from the very finest and most carefully selected Mexican rice root. Beautiful white maple backs, finished with shellac. Leather finger guards on each row of brush. Length of back, 10 in. This is an excellent brush at the price. Weight, each, 9 oz. Per dozen \$3.25 Each30

95B6625—Genuine red leather back and russet leather hand strap. This brush is closely filled with gray tampico center and has a row of black imported bristles outside. Brushes with genuine leather backs have never before been sold at so low a price. Size of brush, $8\frac{1}{2}$ in. by $4\frac{1}{2}$ in. Weight, each, 10 oz. Per dozen \$1.71 Each16

95B6630—Solid hard wood backs, highly polished, compactly filled with the best quality of India fibre trimmed $1\frac{1}{2}$ in. clear of the block. Length of brush, $9\frac{1}{2}$ in. Weight, each, 10 oz. Per dozen \$1.71 Each16



95B6635—Very closely filled with the finest quality of "Peerless" rice root, trimmed 2 inches clear of the block. Backs are made of clear, white, hard maple, beautifully polished, size 10 in. by $2\frac{1}{2}$ in. Russet grain leather hand shields on each side of the brush. Brushes packed one each in a carton. The highest grade brush of this style procurable. Weight, each, 15 oz. Per dozen \$5.00 Each45

Harness Rings and Loops

Celluloid Rings



Every genuine Celluloid and Zylonite Ring has the name stamped inside. Celluloid rings red, white or blue. Article number governs color desired. Sizes given are manufacturers' diameters, which are slightly less than standard.

Sizes	Red	White	Blue	Price, Each	Price, Per Doz.	Weight, Per Doz.
1 1/4 in.	95B6900	95B6907	95B6914	\$0.09	\$0.98	3 oz.
1 1/4 in.	95B6901	95B6908	95B6915	.13	1.40	4 oz.
1 1/2 in.	95B6902	95B6909	95B6916	.15	1.65	5 oz.
1 1/4 in.	95B6903	95B6910	95B6917	.18	1.89	6 oz.
1 1/4 in.	95B6904	95B6911	95B6918	.20	2.30	8 oz.
1 1/4 in.	95B6905	95B6912	95B6919	.24	2.67	11 oz.
2 1/4 in.	95B6906	95B6913	95B6920	.26	2.97	12 oz.

Zylonite Rings				Montgomery Ward & Co.'s Zylonite Rings, red, white and blue. Article number governs color desired. Sizes given are manufacturers' dimensions, which are slightly less than standard.		
Sizes	Red	White	Blue	Price, Each	Price, Per Doz.	Weight, Per Doz.
1 1/4 in.	95B6925	95B6932	95B6939	\$0.06	\$0.60	3 oz.
1 1/4 in.	95B6926	95B6933	95B6940	.07	.66	4 oz.
1 1/4 in.	95B6927	95B6934	95B6941	.08	.75	5 oz.
1 1/4 in.	95B6928	95B6935	95B6942	.10	.90	6 oz.
1 1/4 in.	95B6929	95B6936	95B6943	.11	.99	8 oz.
1 1/4 in.	95B6930	95B6937	95B6944	.15	1.17	11 oz.
2 1/4 in.	95B6931	95B6938	95B6945	.17	1.29	12 oz.

Harness Rings

Malleable Iron Harness, Halter and Breeching Rings, Japanned (Black) finish only.

Martingale Rings			
Boxwood Center Rings, either red, white or blue; large and strong. Inside diameter, 2 in. Outside diameter, 3 1/2 in. Weight, each 1 oz. State color. Per doz. .45c Each. 50			

Duranoid Rings			
Red, 1 1/4 in. Per dozen. 24c White, 1 1/4 in. Per doz. 24c Blue, 1 1/4 in. Per doz. 24c Weight, per dozen, 12 oz.			

Bone Rings			
Sizes given on the following rings are all inside measurements. Bone rings diameter about 1 in. Weight, each 1 oz. State color. Per doz. .45c Each. 50			

Black Rubber Rings			
95B6969—Genuine black rubber rings, plain, light in weight, but strong; diameter, 1 1/2 in. Per dozen. .50c 95B6970—Genuine Black Rubber Rings, Imitation stitched edge, light but strong; diameter, 1 1/2 in. Weight, per dozen, 4 oz. Per dozen. .55c			

Celluloid Loops			
Celluloid loops in red, white and blue. Article number governs the color desired.			

Diam.	Article No.	Per Doz.	Color	Weight, Per Dozen.
1/2 in.	95B7002	\$0.12	Red	1/2 oz.
1/2 in.	95B7003	.15	Red	1/2 oz.
1/2 in.	95B7004	1	White	1/2 oz.
1/2 in.	95B7005	.12	White	1/2 oz.
1/2 in.	95B7006	.15	White	1/2 oz.
1/2 in.	95B7007	.17	White	1/2 oz.
1/2 in.	95B7008	.19	Blue	1/2 oz.
1/2 in.	95B7009	.19	Blue	1/2 oz.
1/2 in.	95B7010	.17	Blue	1/2 oz.

Brass Loops			
Solid Brass Slide Loops, polished inside, 95B7029—Size, 1/2 in. Weight, per dozen, 1 1/4 oz. Price, per doz. .16c 95B7030—Size, 3/4 in. Weight, per dozen, 1 1/2 oz. Price, per doz. .20c The above loops are used for connecting any size rings when making spreader straps.			

German Harness Snaps			
German Harness Snaps, malleable iron, Jap. (Black) finish. We handle only the heaviest and the best snaps of this style made.			

Size	Article No.	Per doz.	Weight
5/8 in.	95B7035	13c	12 oz.
1 in.	95B7036	14c	13 oz.
1 1/4 in.	95B7037	24c	1 lb. 10 oz.
1 1/4 in.	95B7038	31c	1 lb. 12 oz.
1 1/4 in.	95B7039	46c	2 lb. 8 oz.
1 1/4 in.	95B7040	50c	2 lb. 12 oz.

Covert Bolt Snaps			
Covert's Banner Bolt Snaps. The principal feature of this snap lies in the spring being entirely covered, shutting out all foreign substance. Malleable Iron, XC Metal (White).			

Size	Art. No.	Per doz.	Weight
7/8 in.	95B7055	22c	1 3/4 lb.
7/8 in.	95B7056	23c	1 4/4 lb.
1 1/4 in.	95B7057	36c	1 1/1 lb.
1 1/4 in.	95B7058	41c	1 1/5 lb.
1 1/4 in.	95B7059	45c	2 1/1 lb.
1 1/4 in.	95B7060	51c	2 5/16 lb.

Triumph Harness Snaps			
Improved Triumph Harness Snaps. These snaps are made of steel Jap. (Black) finish, are very strong and non-corrosive, and are so set that they cannot possibly get out of their proper place.			

Size	Art. No.	Per doz.	Weight
7/8 in.	95B7071	30c	1 1/2 oz.
7/8 in.	95B7072	50c	1 1/2 oz.
1 1/4 in.	95B7073	48c	1 1/2 oz.
1 1/4 in.	95B7074	55c	1 1/2 oz.
1 1/4 in.	95B7075	62c	1 1/2 oz.
1 1/4 in.	95B7076	68c	1 1/2 oz.
1 1/4 in.	95B7077	75c	1 1/2 oz.
1 1/4 in.	95B7078	82c	1 1/2 oz.
1 1/4 in.	95B7079	89c	1 1/2 oz.
1 1/4 in.	95B7080	96c	1 1/2 oz.
1 1/4 in.	95B7081	103c	1 1/2 oz.
1 1/4 in.	95B7082	110c	1 1/2 oz.

Size	Art. No.	Per doz.	Weight
7/8 in.	95B7083	120c	1 1/2 oz.
1 1/4 in.	95B7084	127c	1 1/2 oz.
1 1/4 in.	95B7085	134c	1 1/2 oz.
1 1/4 in.	95B7086	141c	1 1/2 oz.
1 1/4 in.	95B7087	148c	1 1/2 oz.
1 1/4 in.	95B7088	155c	1 1/2 oz.
1 1/4 in.	95B7089	162c	1 1/2 oz.

Size	Art. No.	Per doz.	Weight
7/8 in.	95B7090	23c	1 3/4 oz.
7/8 in.	95B7091	24c	1 4/4 oz.
1 1/4 in.	95B7092	38c	1 lb. 14 oz.
1 1/4 in.	95B7093	38c	1 lb. 14 oz.
1 1/4 in.	95B7094	42c	1 lb. 14 oz.
1 1/4 in.	95B7095	44c	1 lb. 14 oz.
1 1/4 in.	95B7096	48c	1 lb. 14 oz.
1 1/4 in.	95B7097	48c	1 lb. 14 oz.
1 1/4 in.	95B7098	52c	1 lb. 14 oz.
1 1/4 in.	95B7099	56c	2 lb. 12 oz.

Size	Art. No.	Per doz.	Weight
7/8 in.	95B7100	18c	1 3/4 oz.

"Our Economy Automatic Lock-Stitch Sewing Awl Repair Outfit"



The simplest and most practical harness and shoe repairing outfit on the market. Contains all the necessary tools for doing any kind of leather repairing. Especially desirable and a money saver for farmers, teamsters and livery men. The outfit contains one lock-stitch automatic wax thread sewing awl, one needle for heavy stitching and general repairing, one small needle for light stitching, one curved needle for sewing patches on shoes, one collar awl for repairing and sewing sweats in collars, lacing up beltting, etc. Two spools of our special linen thread No. 3 and No. 5 all ready twisted and prepared to wax, one collapsible clamp or stitching horse, one ball of wax, one extra bobbin, one wrench, all put up in a neat wooden box with complete set of instructions. The awl will stitch the heaviest tug or shoes, harnesses, belts, rugs, carpets, tents, buggy tops, etc. The awl carries a grooved needle, such as is used in all lock-stitch sewing machines and the thread is carried from a bobbin inside of the handle, where it is protected and out of the way. It is so simple any one can use it and you will find it will save you many dollars during the course of a year. Weight, packed for shipment, 25 oz.

Order 95B8100—Outfit complete, as shown, price..... 60c
Order 95B8101—Lock-stitch Sewing Awl with three needles and one reel of thread. Price each, weight, 2 oz..... 25c
95B8102—Clamp or stitching horse, each. Weight, 13 oz..... 25c
Add extra for needles, curved or straight, 50c each; per dozen..... 50c
Add extra for thread, per spool..... 50c
Add extra for beeswax for waxing, per cake, 50c. Per dozen cakes..... 50c

ZIG-ZAG HARNESS MENDERS



95B8119—Zig-Zag Harness and Belt Menders and Shoe Sole Savers. Used in place of rivets or sewing. Put on with a hammer. Cheap, strong and practical. Each package contains three dozen menders, assorted in three sizes. For putting on straps, snap rings, binding lines and other strap work, and for increasing the wear of shoe soles. Regular retail price, 25c per package. Weight, per package, 6 1/2 oz. Our price, per package..... \$0.19
Per dozen packages..... 2.00

TUBULAR RIVETS



No. 1 Jappanned Tubular Harness Rivets, put up in small boxes containing 100 rivets of one size. Be sure to state length wanted. Average weight, about 5 oz. per box.

95B8145—Size, 3/16. Per box..... 8c
95B8146—Size, 4/16. Per box..... 8c
95B8147—Size, 5/16. Per box..... 10c
95B8148—Size, 6/16. Per box..... 11c
95B8149—Size, 7/16. Per box..... 12c
95B8150—Size, 8/16. Per box..... 13c
95B8151—Size, 9/16. Per box..... 14c
95B8152—Size, 10/16. Per box..... 15c

Tubular Rivets, No. 1 Jappanned Tubular Harness Rivets, put up in boxes containing 1,000 rivets of one size. Weight, per box..... 1.00

Art. No. Sizes Price per box per box

95B8153 3/16 in. 16 oz. \$0.79
95B8154 4/16 in. 28 oz. 8c
95B8155 5/16 in. 28 oz. 9c
95B8156 6/16 in. 28 oz. 9c
95B8157 7/16 in. 28 oz. 1.00
95B8158 8/16 in. 32 oz. 1.10

Assorted Rivets

95B8163—Tubular Rivets, No. 1 Jappanned Tubular Harness Rivets, for repairing or making all kinds of strap work. Put up in small boxes containing 100 rivets of assorted sizes from 3/16 inch to 8/16 inch. Weight, 4 oz.

Per box..... \$0.10
Per dozen boxes..... 1.10

Harness Punches



95B8168—Revolving Spring Punches, with six tubes that drive in. All steel, standard quality. Assorted sized tubes in each punch. Weight, 12 oz.

Each..... 48c
No extra tubes or repairs for third grade.

Revolving spring tube punches, Osborne's make, strictly all steel, and first quality.

95B8173—Four tubes to screw in. Nos. 3, 4, 5 and 6 in each punch. Weight, 13 oz. Price, each..... \$1.25

95B8174—Six tubes to screw in. Nos. 1, 2, 3, 4, 5, and 6 in each punch. Weight, 14 oz. Price, each..... \$1.50

95B8175—Extra screw tubes for Nos. 95B8173 and 95B8174 Spring Punches. Each..... 18c

Tubes larger than No. 6 will not fit in the frames of four tube or six tube Osborne's punches.

48c

95B8176—Revolving Spring Punches, with six tubes that drive in. All steel, standard quality. Assorted sized tubes in each punch. Weight, 12 oz.

Each..... 48c
No extra tubes or repairs for third grade.

Revolving spring tube punches, Osborne's make, strictly all steel, and first quality.

95B8173—Four tubes to screw in. Nos. 3, 4, 5 and 6 in each punch. Weight, 13 oz. Price, each..... \$1.25

95B8174—Six tubes to screw in. Nos. 1, 2, 3, 4, 5, and 6 in each punch. Weight, 14 oz. Price, each..... \$1.50

95B8175—Extra screw tubes for Nos. 95B8173 and 95B8174 Spring Punches. Each..... 18c

Tubes larger than No. 6 will not fit in the frames of four tube or six tube Osborne's punches.

48c

95B8176—Revolving Spring Punches, with six tubes that drive in. All steel, standard quality. Assorted sized tubes in each punch. Weight, 12 oz.

Each..... 48c
No extra tubes or repairs for third grade.

Revolving spring tube punches, Osborne's make, strictly all steel, and first quality.

95B8173—Four tubes to screw in. Nos. 3, 4, 5 and 6 in each punch. Weight, 13 oz. Price, each..... \$1.25

95B8174—Six tubes to screw in. Nos. 1, 2, 3, 4, 5, and 6 in each punch. Weight, 14 oz. Price, each..... \$1.50

95B8175—Extra screw tubes for Nos. 95B8173 and 95B8174 Spring Punches. Each..... 18c

Tubes larger than No. 6 will not fit in the frames of four tube or six tube Osborne's punches.

48c

95B8176—Revolving Spring Punches, with six tubes that drive in. All steel, standard quality. Assorted sized tubes in each punch. Weight, 12 oz.

Each..... 48c
No extra tubes or repairs for third grade.

Revolving spring tube punches, Osborne's make, strictly all steel, and first quality.

95B8173—Four tubes to screw in. Nos. 3, 4, 5 and 6 in each punch. Weight, 13 oz. Price, each..... \$1.25

95B8174—Six tubes to screw in. Nos. 1, 2, 3, 4, 5, and 6 in each punch. Weight, 14 oz. Price, each..... \$1.50

95B8175—Extra screw tubes for Nos. 95B8173 and 95B8174 Spring Punches. Each..... 18c

Tubes larger than No. 6 will not fit in the frames of four tube or six tube Osborne's punches.

48c

95B8176—Revolving Spring Punches, with six tubes that drive in. All steel, standard quality. Assorted sized tubes in each punch. Weight, 12 oz.

Each..... 48c
No extra tubes or repairs for third grade.

Revolving spring tube punches, Osborne's make, strictly all steel, and first quality.

95B8173—Four tubes to screw in. Nos. 3, 4, 5 and 6 in each punch. Weight, 13 oz. Price, each..... \$1.25

95B8174—Six tubes to screw in. Nos. 1, 2, 3, 4, 5, and 6 in each punch. Weight, 14 oz. Price, each..... \$1.50

95B8175—Extra screw tubes for Nos. 95B8173 and 95B8174 Spring Punches. Each..... 18c

Tubes larger than No. 6 will not fit in the frames of four tube or six tube Osborne's punches.

48c

95B8176—Revolving Spring Punches, with six tubes that drive in. All steel, standard quality. Assorted sized tubes in each punch. Weight, 12 oz.

Each..... 48c
No extra tubes or repairs for third grade.

Revolving spring tube punches, Osborne's make, strictly all steel, and first quality.

95B8173—Four tubes to screw in. Nos. 3, 4, 5 and 6 in each punch. Weight, 13 oz. Price, each..... \$1.25

95B8174—Six tubes to screw in. Nos. 1, 2, 3, 4, 5, and 6 in each punch. Weight, 14 oz. Price, each..... \$1.50

95B8175—Extra screw tubes for Nos. 95B8173 and 95B8174 Spring Punches. Each..... 18c

Tubes larger than No. 6 will not fit in the frames of four tube or six tube Osborne's punches.

48c

95B8176—Revolving Spring Punches, with six tubes that drive in. All steel, standard quality. Assorted sized tubes in each punch. Weight, 12 oz.

Each..... 48c
No extra tubes or repairs for third grade.

Revolving spring tube punches, Osborne's make, strictly all steel, and first quality.

95B8173—Four tubes to screw in. Nos. 3, 4, 5 and 6 in each punch. Weight, 13 oz. Price, each..... \$1.25

95B8174—Six tubes to screw in. Nos. 1, 2, 3, 4, 5, and 6 in each punch. Weight, 14 oz. Price, each..... \$1.50

95B8175—Extra screw tubes for Nos. 95B8173 and 95B8174 Spring Punches. Each..... 18c

Tubes larger than No. 6 will not fit in the frames of four tube or six tube Osborne's punches.

48c

95B8176—Revolving Spring Punches, with six tubes that drive in. All steel, standard quality. Assorted sized tubes in each punch. Weight, 12 oz.

Each..... 48c
No extra tubes or repairs for third grade.

Revolving spring tube punches, Osborne's make, strictly all steel, and first quality.

95B8173—Four tubes to screw in. Nos. 3, 4, 5 and 6 in each punch. Weight, 13 oz. Price, each..... \$1.25

95B8174—Six tubes to screw in. Nos. 1, 2, 3, 4, 5, and 6 in each punch. Weight, 14 oz. Price, each..... \$1.50

95B8175—Extra screw tubes for Nos. 95B8173 and 95B8174 Spring Punches. Each..... 18c

Tubes larger than No. 6 will not fit in the frames of four tube or six tube Osborne's punches.

48c

95B8176—Revolving Spring Punches, with six tubes that drive in. All steel, standard quality. Assorted sized tubes in each punch. Weight, 12 oz.

Each..... 48c
No extra tubes or repairs for third grade.

Revolving spring tube punches, Osborne's make, strictly all steel, and first quality.

95B8173—Four tubes to screw in. Nos. 3, 4, 5 and 6 in each punch. Weight, 13 oz. Price, each..... \$1.25

95B8174—Six tubes to screw in. Nos. 1, 2, 3, 4, 5, and 6 in each punch. Weight, 14 oz. Price, each..... \$1.50

95B8175—Extra screw tubes for Nos. 95B8173 and 95B8174 Spring Punches. Each..... 18c

Tubes larger than No. 6 will not fit in the frames of four tube or six tube Osborne's punches.

48c

95B8176—Revolving Spring Punches, with six tubes that drive in. All steel, standard quality. Assorted sized tubes in each punch. Weight, 12 oz.

Each..... 48c
No extra tubes or repairs for third grade.

Revolving spring tube punches, Osborne's make, strictly all steel, and first quality.

95B8173—Four tubes to screw in. Nos. 3, 4, 5 and 6 in each punch. Weight, 13 oz. Price, each..... \$1.25

95B8174—Six tubes to screw in. Nos. 1, 2, 3, 4, 5, and 6 in each punch. Weight, 14 oz. Price, each..... \$1.50

95B8175—Extra screw tubes for Nos. 95B8173 and 95B8174 Spring Punches. Each..... 18c

Tubes larger than No. 6 will not fit in the frames of four tube or six tube Osborne's punches.

48c

95B8176—Revolving Spring Punches, with six tubes that drive in. All steel, standard quality. Assorted sized tubes in each punch. Weight, 12 oz.

Each..... 48c
No extra tubes or repairs for third grade.

Revolving spring tube punches, Osborne's make, strictly all steel, and first quality.

95B8173—Four tubes to screw in. Nos. 3, 4, 5 and 6 in each punch. Weight, 13 oz. Price, each..... \$1.25

95B8174—Six tubes to screw in. Nos. 1, 2, 3, 4, 5, and 6 in each punch. Weight, 14 oz. Price, each..... \$1.50

95B8175—Extra screw tubes for Nos. 95B8173 and 95B8174 Spring Punches. Each..... 18c

Tubes larger than No. 6 will not fit in the frames of four tube or six tube Osborne's punches.

48c

95B8176—Revolving Spring Punches, with six tubes that drive in. All steel, standard quality. Assorted sized tubes in each punch. Weight, 12 oz.

Each..... 48c
No extra tubes or repairs for third grade.

Revolving spring tube punches, Osborne's make, strictly all steel, and first quality.

95B8173—Four tubes to screw in. Nos. 3, 4, 5 and 6 in each punch. Weight, 13 oz. Price, each..... \$1.25

95B8174—Six tubes to screw in. Nos. 1, 2, 3, 4, 5, and 6 in each punch. Weight, 14 oz. Price, each..... \$1.50

95B8175—Extra screw tubes for Nos. 95B8173 and 95B8174 Spring Punches. Each..... 18c

Tubes larger than No. 6 will not fit in the frames of four tube or six tube Osborne's punches.

48c

95B8176—Revolving Spring Punches, with six tubes that drive in. All steel, standard quality. Assorted sized tubes in each punch. Weight, 12 oz.

Each..... 48c
No extra tubes or repairs for third grade.

Revolving spring tube punches, Osborne's make, strictly all steel, and first quality.

95B8173—Four tubes to screw in. Nos. 3, 4, 5 and 6 in each punch. Weight, 13 oz. Price, each..... \$1.25

95B8174—Six tubes to screw in. Nos. 1, 2, 3, 4, 5, and 6 in each punch. Weight, 14 oz. Price, each..... \$1.50

95B8175—Extra screw tubes for Nos. 95B8173 and 95B8174 Spring Punches. Each..... 18c

Tubes larger than No. 6 will not fit in the frames of four tube or six tube Osborne's punches.

48c

95B8176—Revolving Spring Punches, with six tubes that drive in. All steel, standard quality. Assorted sized tubes in each punch. Weight, 12 oz.

Each..... 48c
No extra tubes or repairs for third grade.

Revolving spring tube punches, Osborne's make, strictly all steel, and first quality.

95B8173—Four tubes to screw in. Nos. 3, 4, 5 and 6 in each punch. Weight, 13 oz. Price, each..... \$1.25

95B8174—Six tubes to screw in. Nos. 1, 2, 3, 4, 5, and 6 in each punch. Weight, 14 oz. Price, each..... \$1.50

95B8175—Extra screw tubes for Nos. 95B8173 and 95B8174 Spring Punches. Each..... 18c

Tubes larger than No. 6 will not fit in the frames of four tube or six tube Osborne's punches.

48c

95B8176—Revolving Spring Punches, with six tubes that drive in. All steel, standard quality. Assorted sized tubes in each punch. Weight, 12 oz.

Each..... 48c
No extra tubes or repairs for third grade.

Revolving spring tube punches, Osborne's make, strictly all steel, and first quality.

95B8173—Four tubes to screw in. Nos. 3, 4, 5 and 6 in each punch. Weight, 13 oz. Price, each..... \$1.25

95B8174—Six tubes to screw in. Nos. 1, 2, 3, 4, 5, and 6 in each punch. Weight, 14 oz. Price, each..... \$1.50

95B8175—Extra screw tubes for Nos. 95B8173 and 95B8174 Spring Punches. Each..... 18c

Tubes larger than No. 6 will not fit in the frames of four tube or six tube Osborne's punches.

48c

95B8176—Revolving Spring Punches, with six tubes that drive in. All steel, standard quality. Assorted sized tubes in each punch. Weight, 12 oz.

Each..... 48c
No extra tubes or repairs for third grade.

Revolving spring tube punches, Osborne's make, strictly all steel, and first quality.

NEW YORK STORE

Serves New England and Atlantic
Coast States



CHICAGO STORE

Solid Concrete, 27 Acres
of floor space



KANSAS CITY STORE

Completed 1914. Largest Business
Building West of Mississippi



In our estimation Service means: Everything that
you have a right to expect when you send
your order in. Good service is our hobby.

FT. WORTH
TEXAS STORE

PORTLAND
STORE



MONTGOMERY WARD and Co.

NEW YORK, CHICAGO, KANSAS CITY,
FORT WORTH, PORTLAND

Digitized by:



ASSOCIATION
FOR
PRESERVATION
TECHNOLOGY,
INTERNATIONAL

www.apti.org

BUILDING
TECHNOLOGY
HERITAGE
LIBRARY

<https://archive.org/details/buildingtechnologyheritagelibrary>

From the collection of:

Mike Jackson, FAIA

NEW YORK, CHICAGO, KANSAS CITY
FORT WORTH, PORTLAND